NASA CONTRACTOR REPORT 191483

VARIABILITY OF MEASURED SONIC BOOM SIGNATURES

VOLUME II - DATA REPORT

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Langley Research Center Hampton, Virginia 23681-0001

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APPENDIX A

Extended Database

Augmented BOOMFILE Database (Noise Metrics)

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ugmented BOOMFILE Database (Rise Times)

ILE NAME	Tine (Hrs)	PBAX (PSF)	Pain (PSF)	t50 (ms)	t75 (ms)	t90 (ms)	t100 (ms)	Sideline (Feet)	Altitude (Feet)	Mach	Aircraf
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Augmented XB-70 Database (Noise Metrics)

FILE NAME	Time (hrs)	Pmax (PSF)	Pmin (PSF)	ESEL (dB)	ASEL (db)	CSEL (dB)	PLDB (dB)	Sideline (Feet)	DFBR (Feet)	Altitude (Feet)	Mach #
		; 		!				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1
1M02	1.	1.600	-1.189	119.400	85.600	4		1349.	8871	5.00	
M03	7	•	-1.317	120.300	87.200	Ġ		1349.	8871	50500	
1 H 0 4	7.7	•	-1.443	120.600	84.900	'n.		1349.	8871	0 200	
1M06	7	•	-1.649	122.000	85.500	ς.	-	•	8871	50	
	7	•	-1.036	117.800	82.500	Ä.		1349.	8871	0.000	
PORT	1.	•	-1.265	120.300	85.900	'n.	_	1349.	8871	0500.	
2007	,,	•	-2.665	125.900	94.800	∹.		•	4988	8000	
2007	,,	•	-2.773	126.300	95.300	<u>.</u>	_	•	4988	8000	Ξ.
X0.2M03.XX	,,	3.050	-2.051	124.000	96.500	112.000	111.400	0.0	34988.7	80	1.80
2 MO S	4 c	•	-3.521	127.000	92.000	٠.			4988	8000	Ξ.
Z M 0 7	4.0	•	72.021	125.900	94.400	ή.			4988	80	Ξ.
3 M O 1	, 6	•	11.071	120.300	000.08	ά.	-	9	4988	8000	Ξ.
3M02.			-1.087	121.100	87.500			7535.	3313.	6000	Ξ.
3M03.	٠,		-1.188	121.000	86.200	: ~		•	3213.	0.00099	- '
3M05.	٥,	•	-0.841	117.900	83.300		_	3636	קינו קינו		- '
3M06.	٠.	•	-1.148	120.700	87.900		_	9 6 9		. 0000	•
3M07.	٠.	•	-1.183	120.900	83.600			636	9950	2	
4M01.	S.	•	-2.306	126.000	95.100	Ξ.	-	791	8107	2000	
4M03.	ĸ.	•	-2.637	126.100	98.900	٠,	13.	791	8107	2000	• • •
4M04.	v.		-2.080	125.100	95.500	ď	09.1	791	8107.	2	
4 MO 5	v.		-2.093	124.000	90.900	07.	04.1	191	8107.	2000.	
4M07.			~2.250	124.700	87.500	Ξ.	02.	791	8107.	2000.	
E OM	י פט		-2.038	124.300	86.700	98.	_	791	8107.	ë.	٠.
SHOD.	•	٠	-1.936	123.900	85.700	08.	_	6667	4346.	ë.	
	•		-2.094	124.200	94.500	60	•	9667	4346.	ö	***
S MO 1			-2.034	123.800	92.100	80		567	4346.	ö	
		•	80.0-	108.700	71.400		_	4248	088.	<u>.</u>	•
				107.500	71.100	G	82.	4 2 4 8	880		•
. FOW 2		•	1.30/	123.200	85.500	96.	•	2784	516.	<u>.</u>	4
7M04		•	1000		001.50		٠,	2784	516	2500.	4
7M05.	. 1		-1.082	20.	000.18	٠.		7 U	0 10	9 9	σ,
7M07.	1.9		-1.174	120.300	84.000	000	1 1	1	. סני	2500	•
7M08.	1.9		-1.034	20.	78.300	86	·	115		2500	. 4
ស់ :	7		-2.658	25.	96.500	11.	11.0	9761.6	90.	3800.	
8M07.	2.4		-2.632	126.200	92.400	10.	07.1	161	.060	3800.	1
8 MO 8	2.4		-2.711	126.200	97.200	12.	a.	191	.060	3800.	រោ
9M05.	2.3		-2.263	127.100	86.100	5.	01.5	. 29	559.	3000.	m
. / 05.6	٠. د د		-2.166	125.800	86.900	05.	·	29.	559.	3000.	~
	,,		-2.018	125.700	90.700	. 6	,	129	559.		m
	7 . 7		9/0.7-	176.200	92.800		•	376.	16.	1000	4
0.M.0.7.X	2.7	٥,	-3.396	27.	2	3.70	o	376.	16.		4
M08.X		٠,	-3.196	127,700	9	4.60	∞ .		16.	1000.	1.42
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Augmented XB-70 Database (Rise Times)

| Mach # | 1 " | ۳. | ۳. | ۳. | ۳. | ٠. | ~ ` | | | | | | ۳. | Ÿ. | Ÿ. | Ÿ. | • | • " | , , | | | .4 | Ξ. | Ξ. | ٠ | ٠, ٦ | . 4 | ₹. | 7 | ₹. | ₹. | 1.42 | יטו | . 45 | Ξ. | ۳. | Υ. | 4 | 4. | ₹. | S. | S. | 1.51 | `.' | 1.76 |
|--------------------|-----------|-------|--------|-----------|--------|-------------|-------|------|-----|--------|-------|-------|--------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|--------|-------------------|-----------|----------|--------|-----------|-------|-------|-----------|--------|-------|---------|--------|-------|-------|-----------|-------|------------|---------|------------|--------|---------|
| Altitude
(Feet) | 0500. | 0500. | 0500. | 00 | 0500. | 0500. | | | | . 0008 | 80000 | 6000 | 6000. | 6000. | 000 | 6000. | 6000. | 2000 | 000 | 2000. | 000 | 2000. | 2300. | 2300. | 2300. | | 2500. | 2500. | 2500. | 2500. | 2500. | 33800.0 | 3800. | 800. | 3000. | 3000. | 3000. | 1000. | .0001 | 1000. | 4000 | 1000 | 4000 | .0001 | 41000.0 |
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(Feet) | 8871. | 8871. | 8871. | 8871. | 8871. | . 1 / 20 | | | . « | 4938 | 4988. | 3313. | 3313. | 3313. | 8950. | 8950. | 6950. | | 8107. | 8107. | 8107. | 8107. | 4346. | 4346. | 4346. | . 880.0 | 70516. | 0516. | 0516. | 1959. | 1959. | 36000. | . 0609 | .0609 | 3559. | 3559. | 3559. | 5616. | 5616. | 5616. | 4421. | 4421. | 121 | 2010 | 33015.1 |
| Sideline
(Feet) | 349. | 349. | 349. | 21349.6 | 349. | 24.
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(ms) | . 50 | 00. | .75 | . 12 | .87 | | | 1 | 200 | 37 | 1.62 | . 12 | . 75 | 00. | . 75 | . 1 2 | | 2.6 | . 12 | 0.87 | 1.50 | 9.87 | 00. | 00 | 2.37 | 80 | 0.37 | 9.00 | 8.37 | 4.75 | 00. |
 | . 12 | . 62 | 9.37 | . 50 | 2.75 | . 75 | . 50 | . 75 | . 37 | . 25 | . 62 | | 6.125 |
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(ms) | .87 | .12 | . 12 | . 62 | . 25 | . מי | | . ל | 30 | . 25 | . 87 | .37 | 00. | . 50 | . 75 | 57. | <u>.</u> | | . 37 | . 50 | . 75 | . 62 | .87 | . 50 | 0.75 | 70. | 9.62 | . 75 | 7.50 | 4.87 | . 75 | 7.12 | 00 | .37 | 1.12 | 00. | 2.00 | .87 | . 50 | . 62 | . 62 | . 75 | .87 | . מ | 1.500 |
| t50
(#s) | 12. | °. | . 50 | 00 | . 6 | | • | | 9 | 37 | . 12 | . 75 | . 50 | . 20 | . 55 | 77. | 79. | , , | . 25 | . 50 | . 12 | . 25 | .87 | .37 | 0.50 | 21. | 5.62 | . 62 | 5.37 | 0.37 | .87 | 2 500 | . 75 | .87 | 0.50 | . 12 | 1.25 | . 52 | . 25 | . 20 | 52 | . 25 | 5.3 | 70. | 1.000 |
| Pain
(PSF) | =: | - | -1.443 | - | -1.036 | - ۲ | 57.60 | 4 6 | 4 1 | ~ | ~ | _ | -1.087 | - | ο. | → . | -1.183 | 4 0 | • ~ | ~ | ~ | ~ | - | -2.094 | \sim $^{\circ}$ | 0.0.0- | , - | -1.881 | _ | ┛, | ~ . | -2.658 | . ~ | ~ | ~ | -2.166 | ~ | ~ | 3.39 | 61. | 2.50 | 2.49 | 46 | 2 . 40 | -2.145 |
| PBBX
(PSF) | | . 75 | .71 | 2.100 | 2.50 | , , | , , | | 5 | . 25 | 4.8 | .47 | .63 | . 69 | . 25 | ? ? | 0/. | | . 75 | . 05 | .37 | . 30 | . 15 | . 18 | . 00 | 75. | 13 | . 15 | .08 | . 33 | . 42 | • | . 05 | . 28 | . 59 | . 41 | 44 | 66. | 90 | . 27 | 9 | 96. | 0 5 | - | 3.360 |
| Time
(Hrs) | . 2 | 1.2 | 1.2 | 7 | 7.7 | 1 .6 | 4.6 | • • | • ~ | 2.2 | 2.2 | ٥. | ٥. | ٥. | ۰, | ۰, ۱ | . u | , r. | . 2 | S | ٠. | S. | 9 | 9 | 9. 4 | | 6.1 | 1.9 | 1.9 | 1.9 | 9. | . 4 | 2 . 4 | ₹. | 2.3 | 2.3 | 2.3 | 2.7 | ۲. | 2.7 | ٠.5
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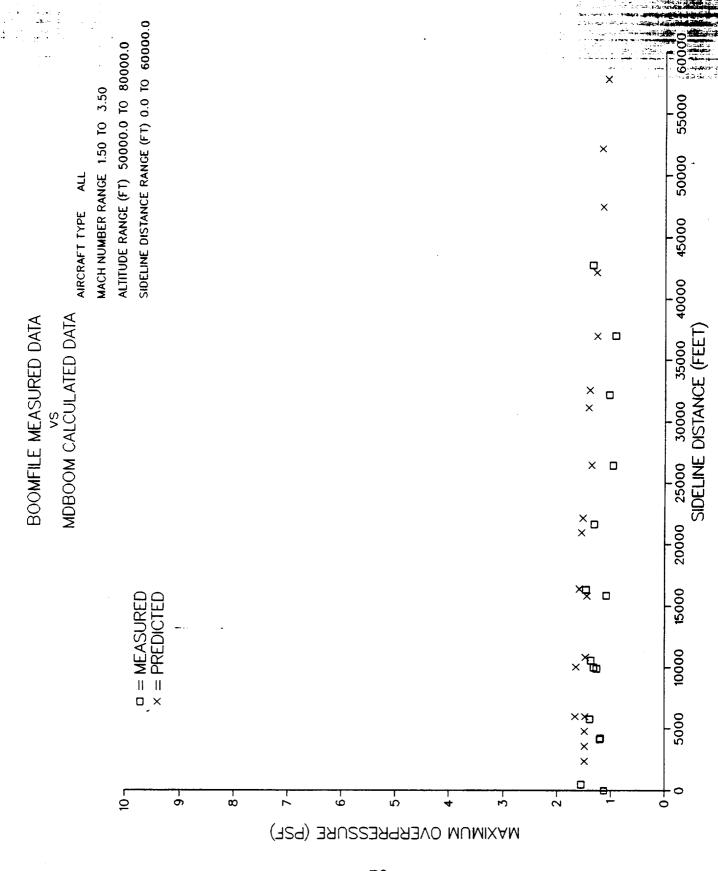
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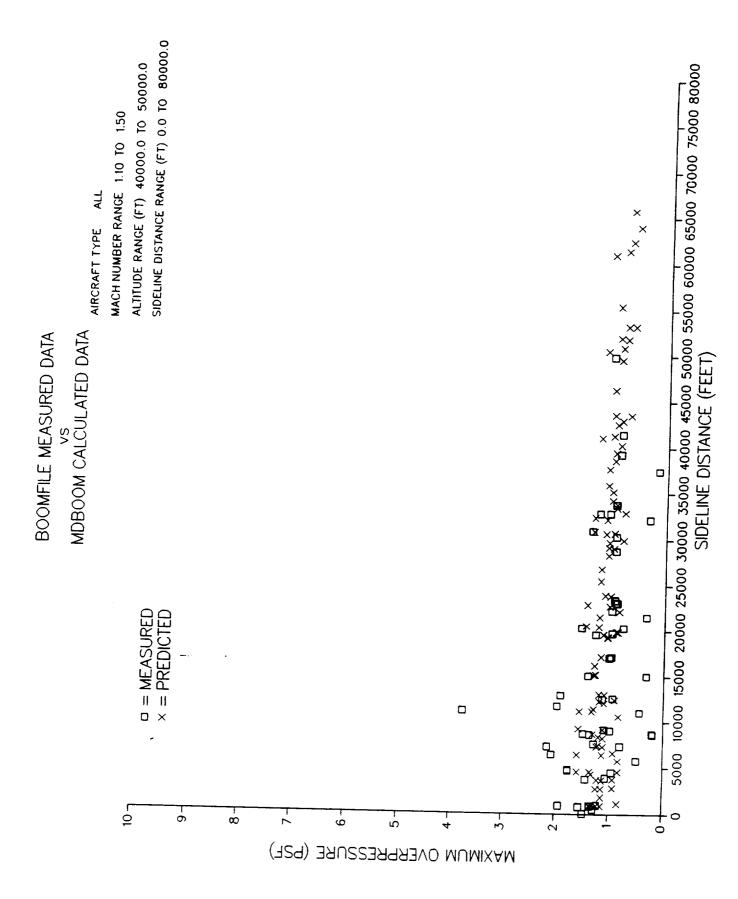
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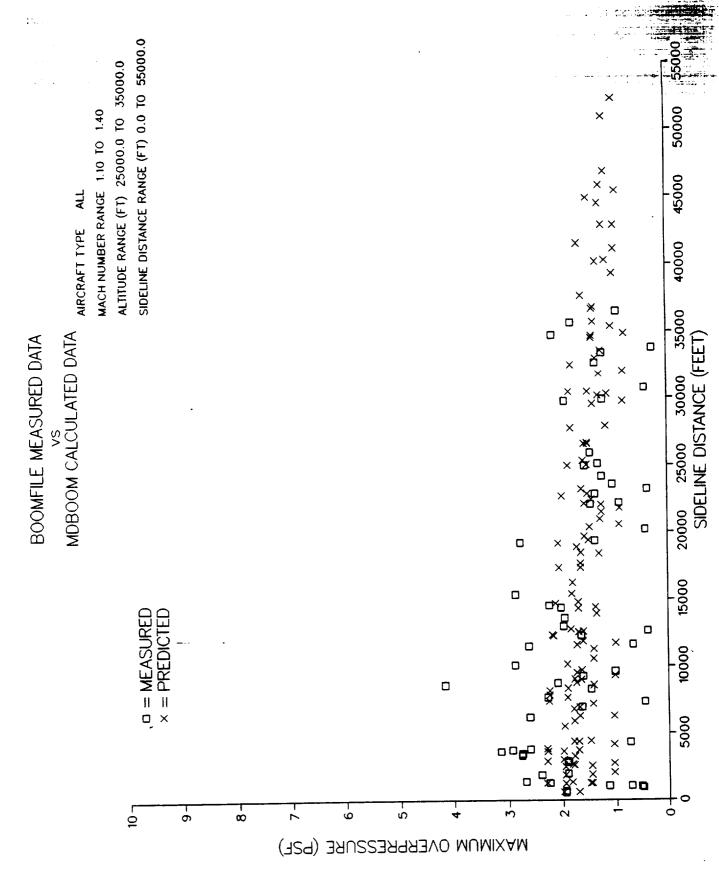
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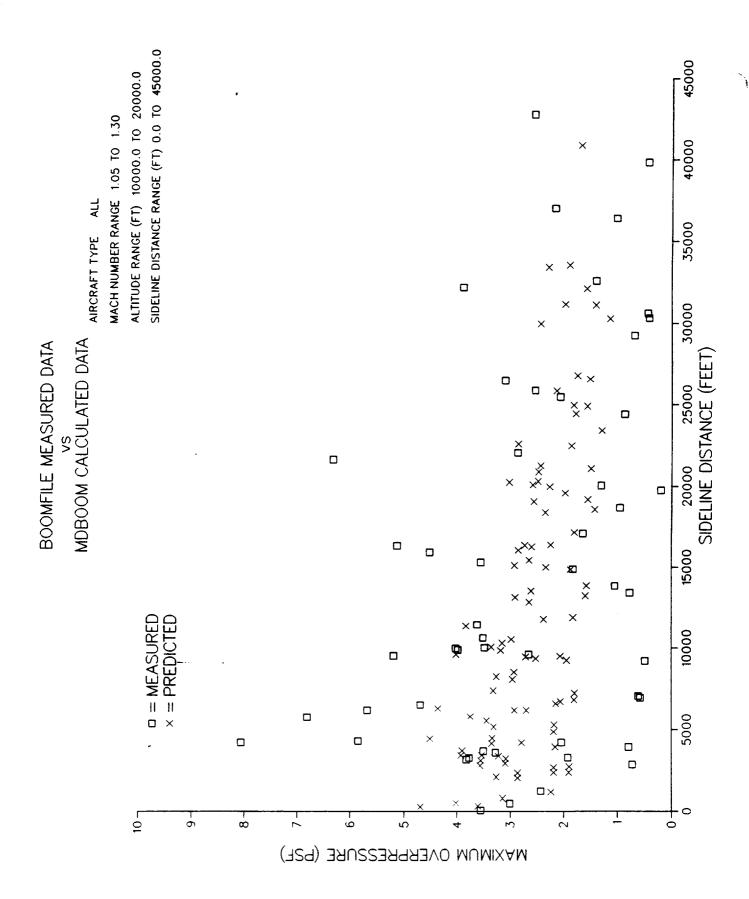
APPENDIX B

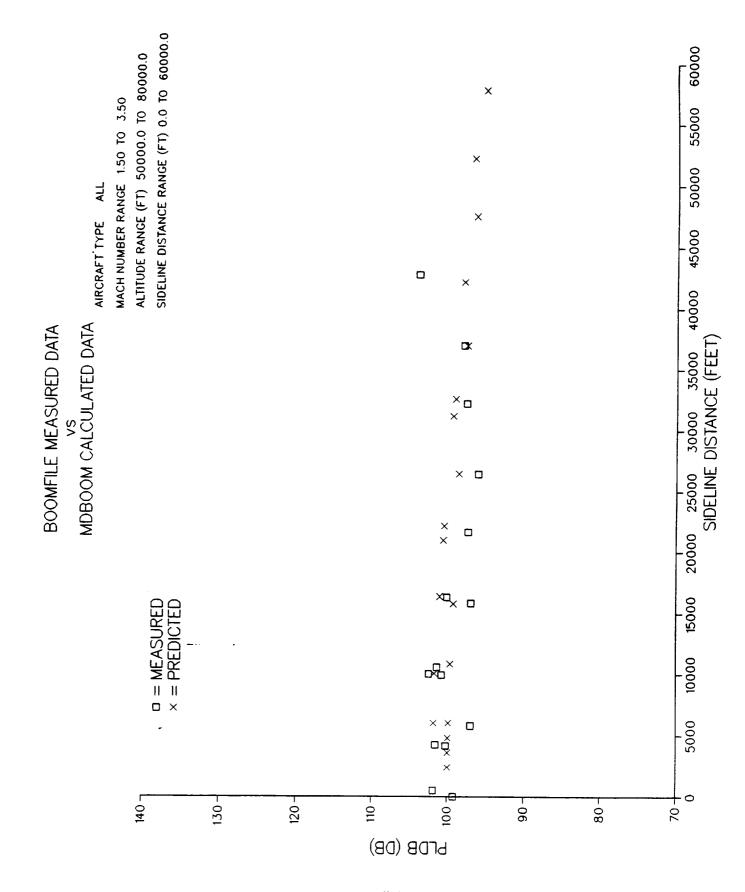
BOOMFILE and XB-70 Plots

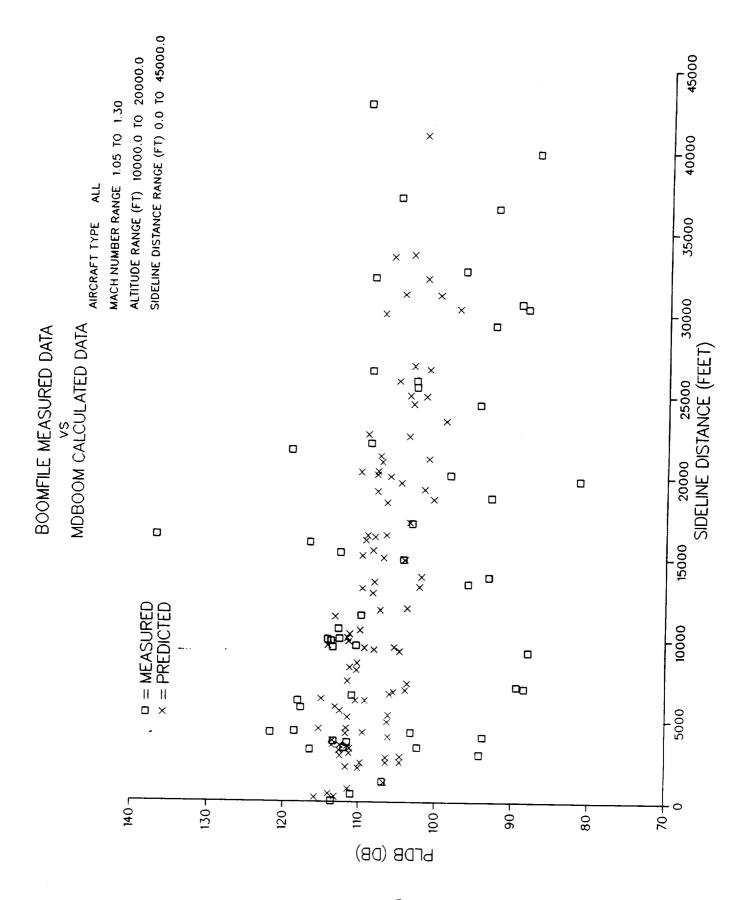


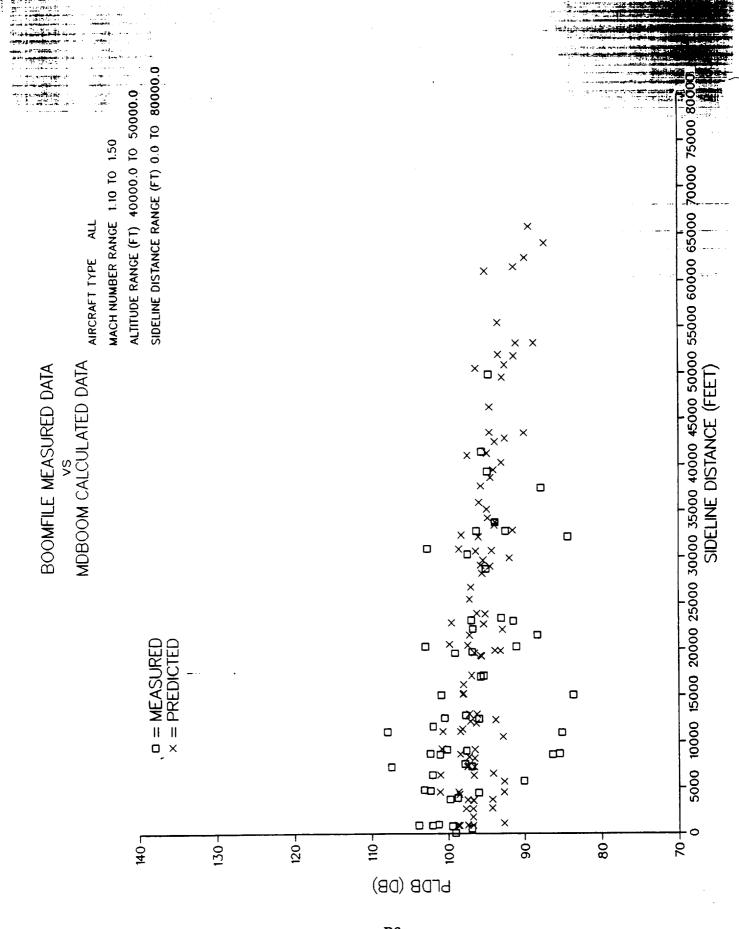


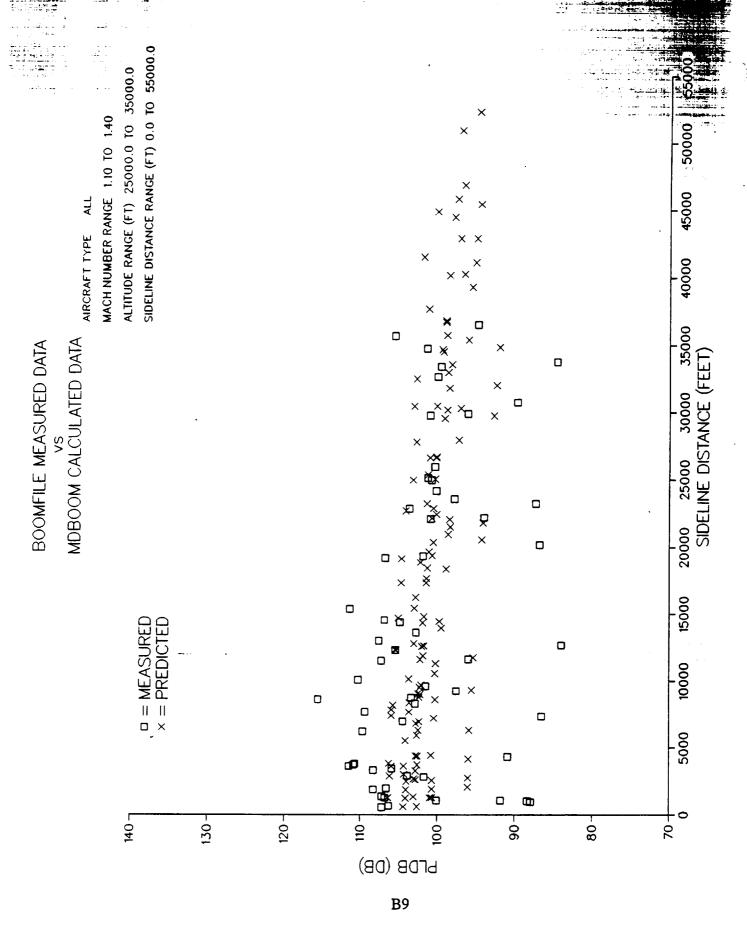




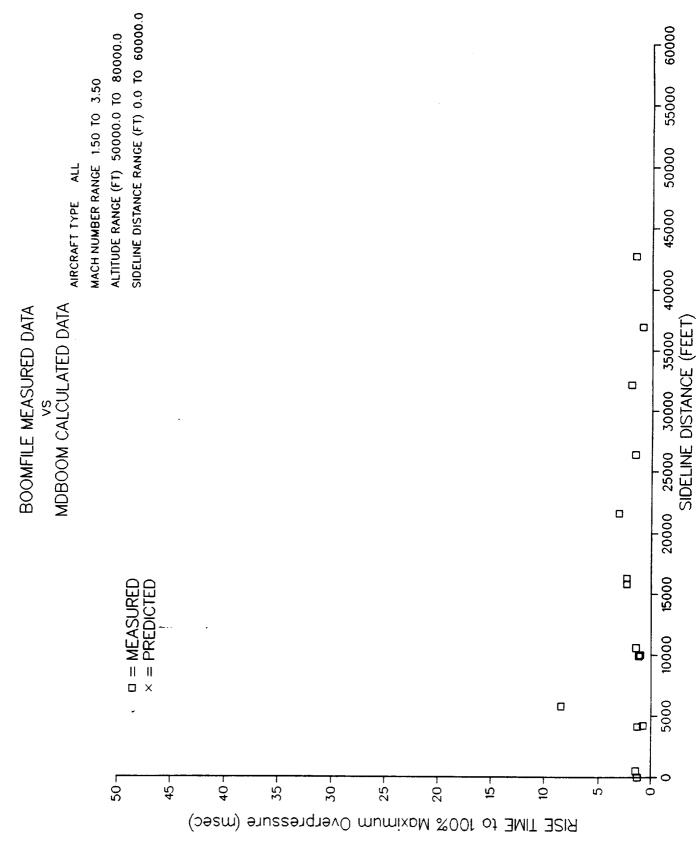


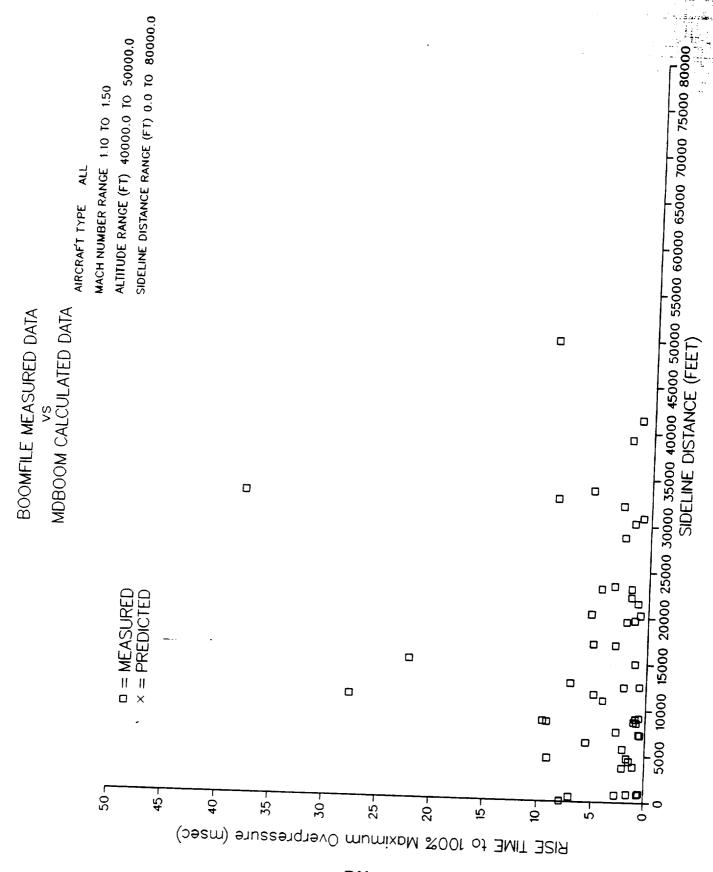


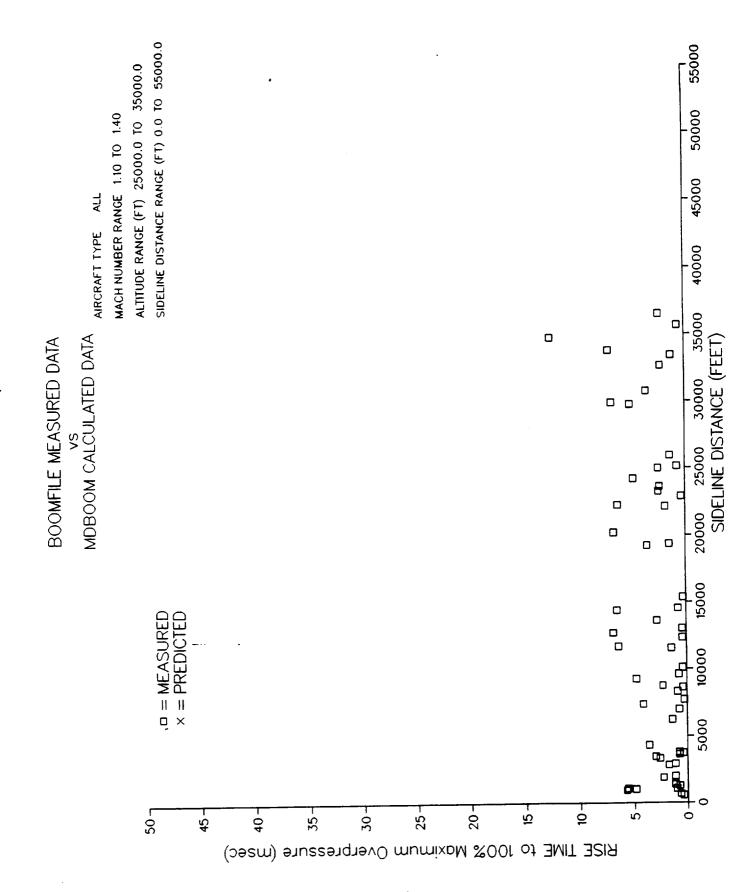


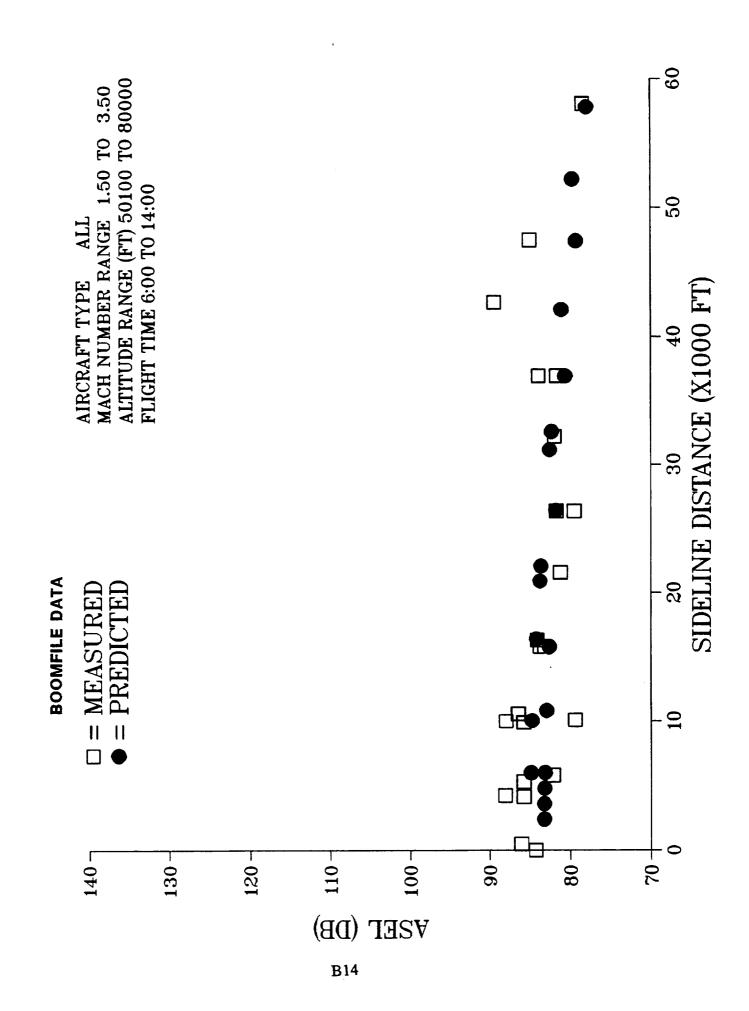


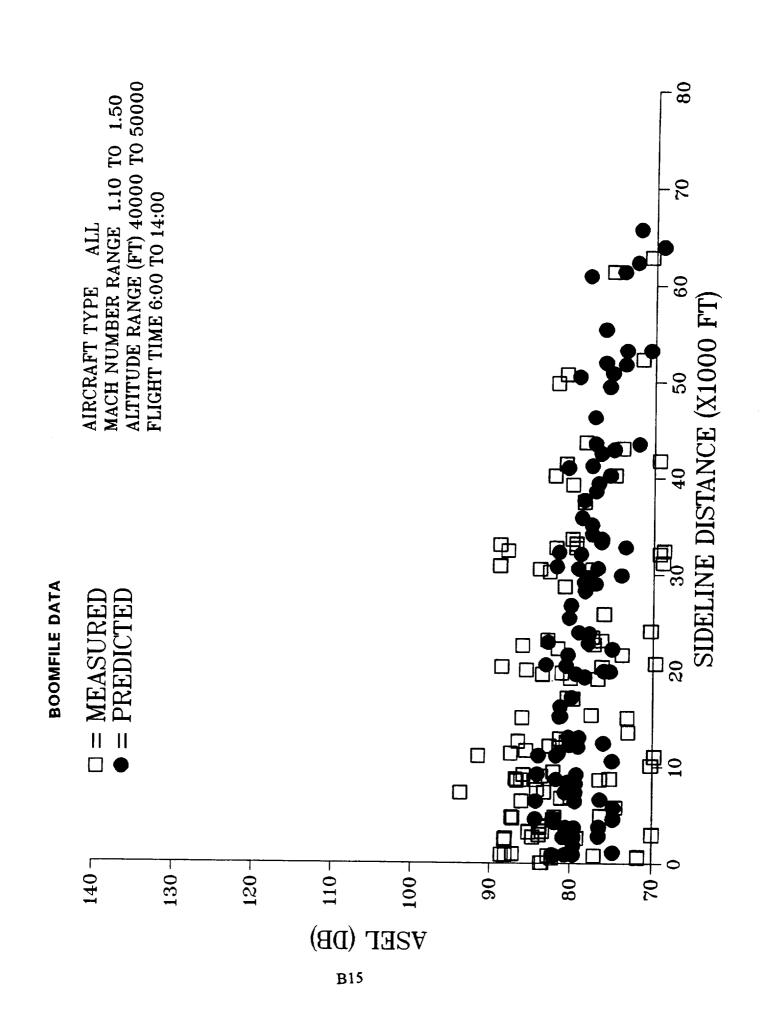
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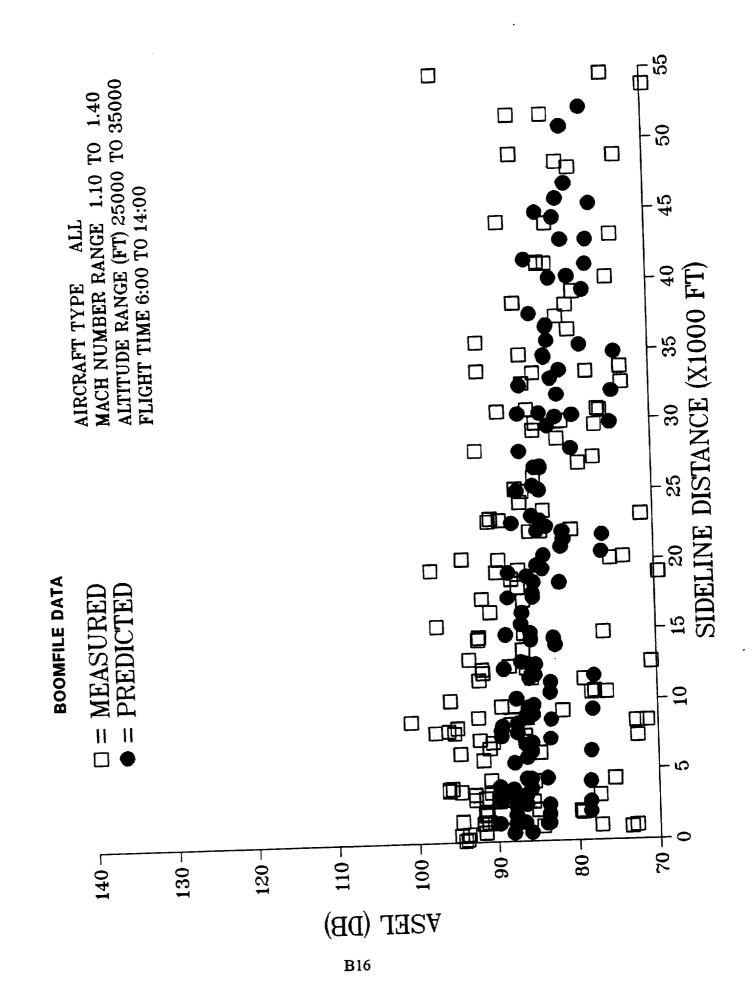


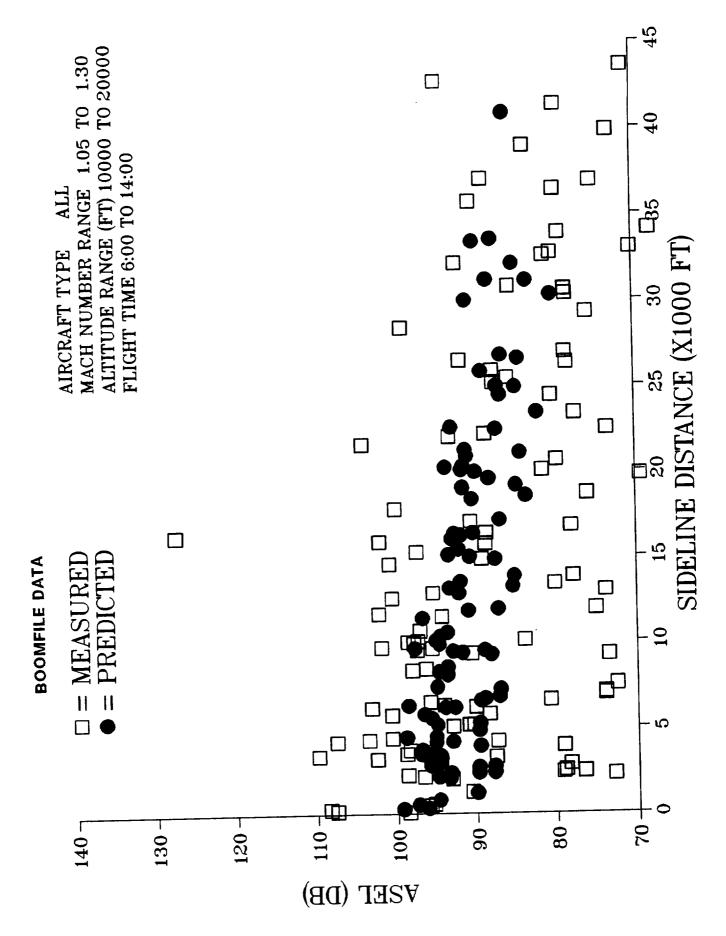


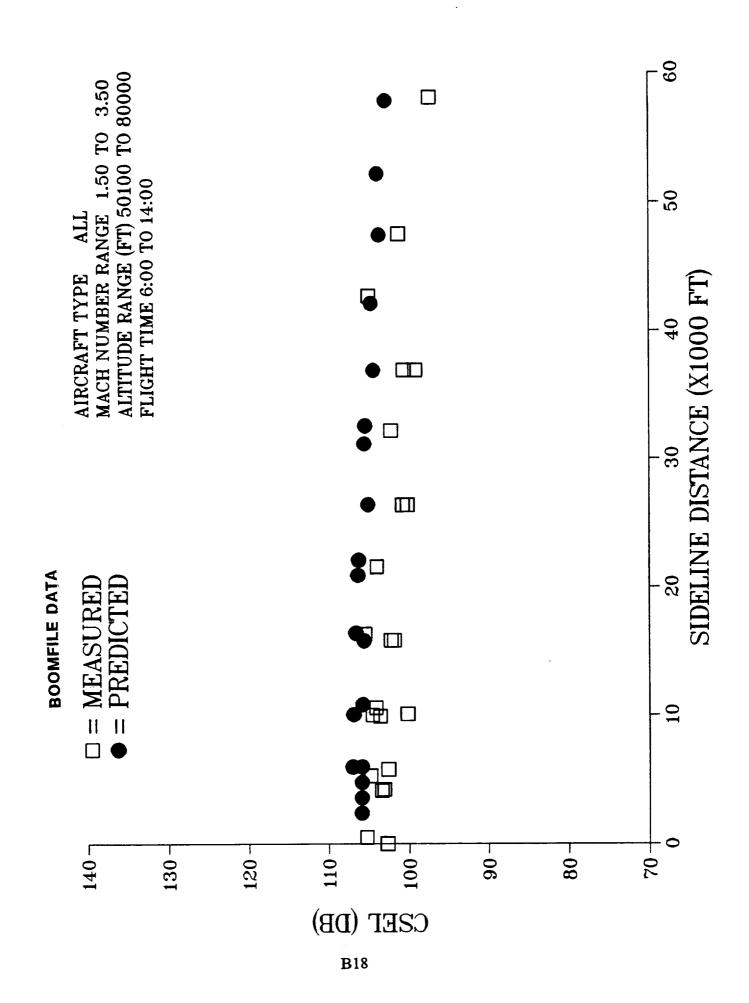


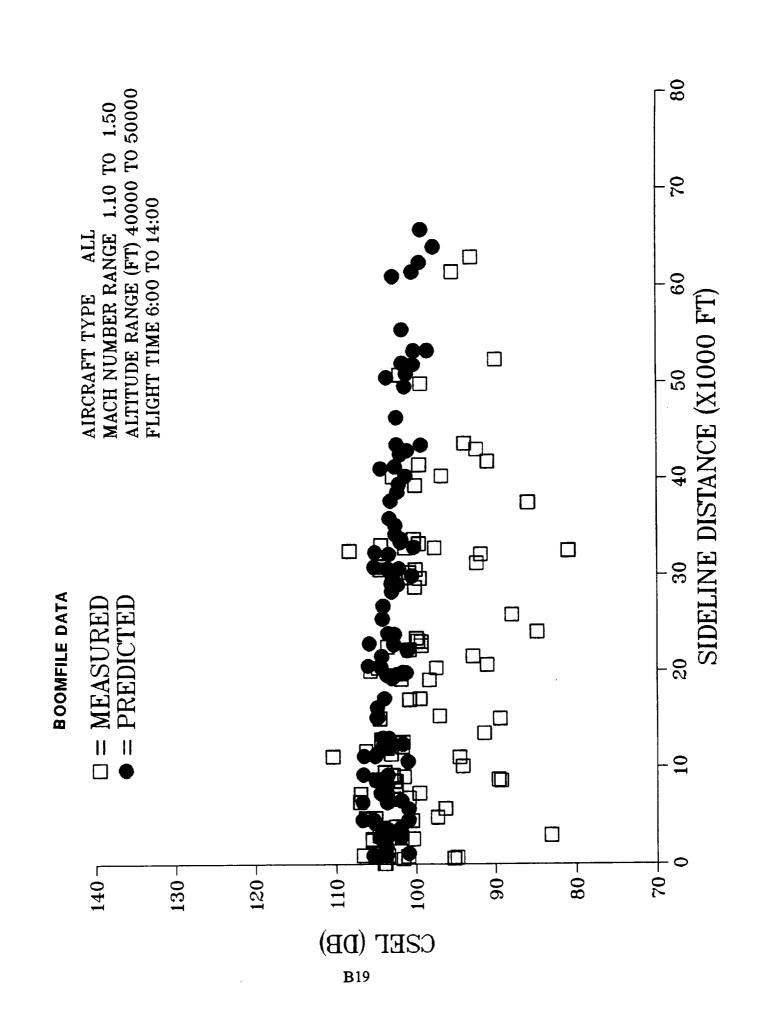


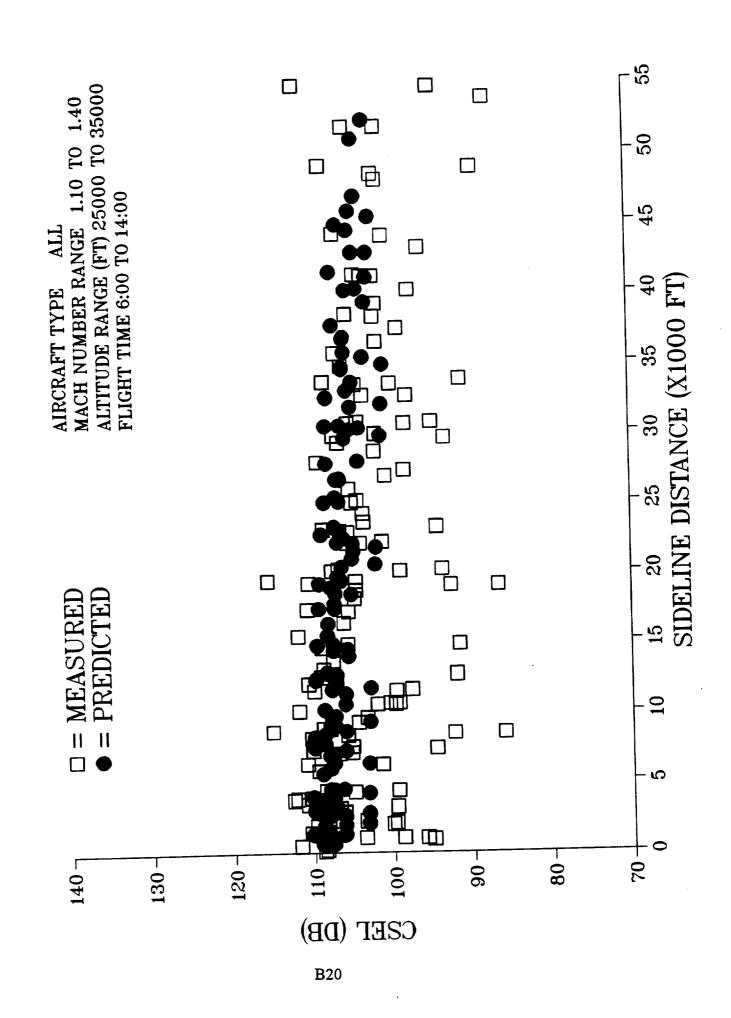


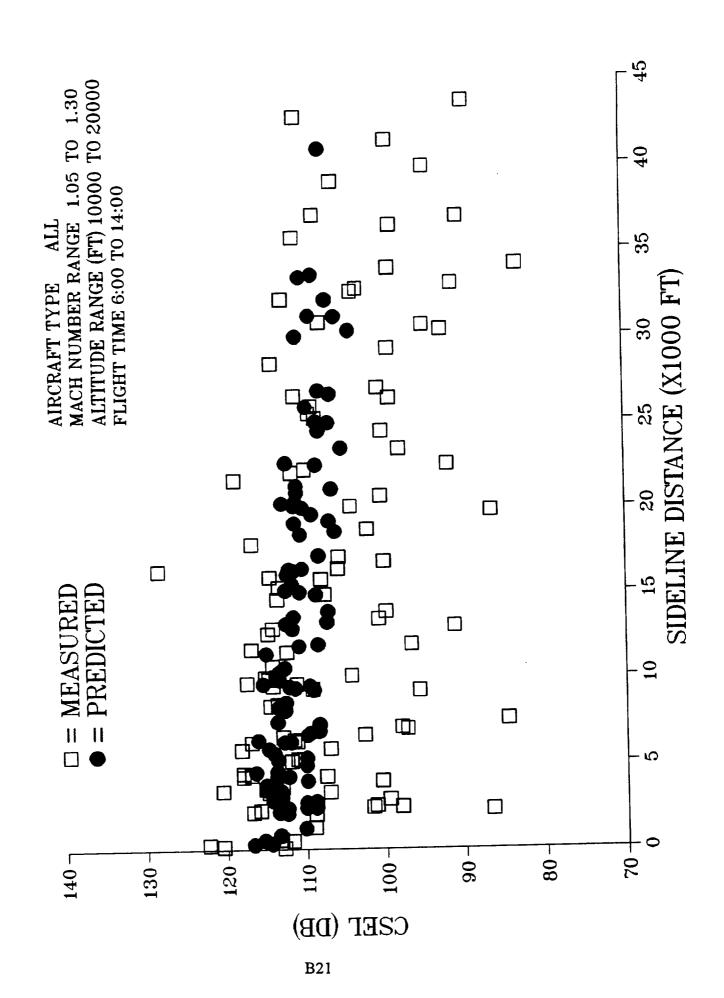


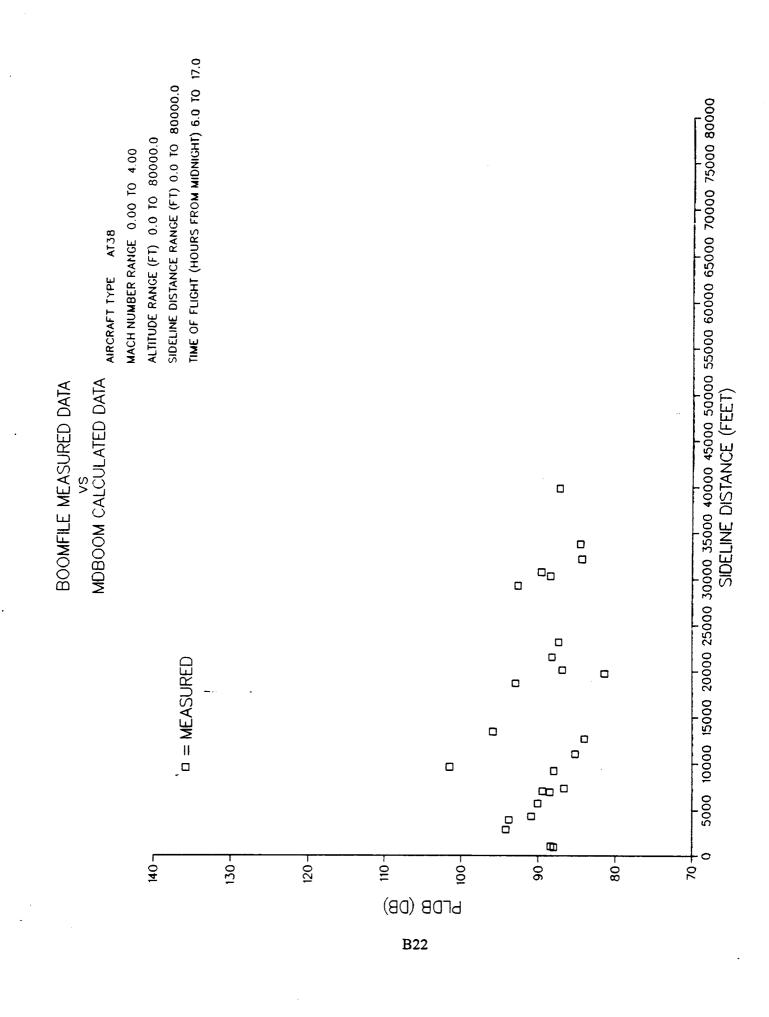


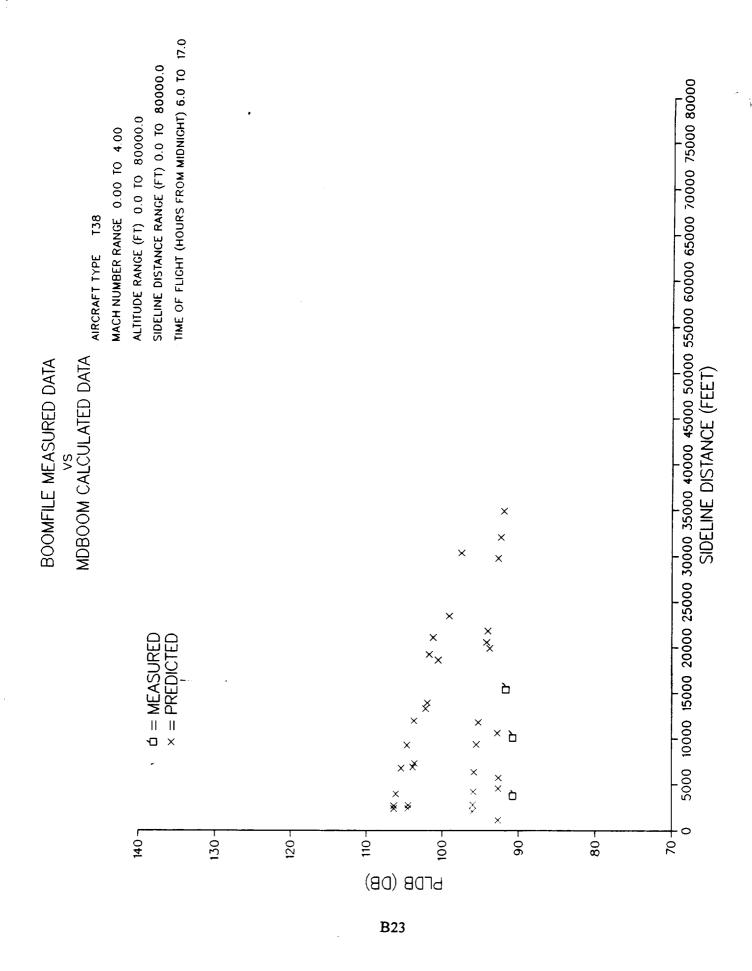


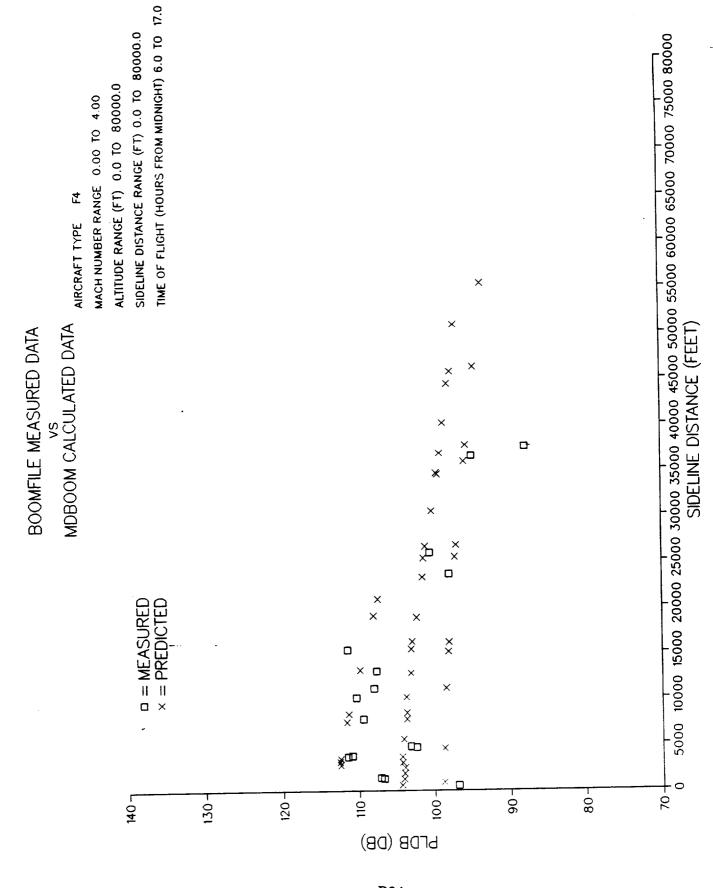


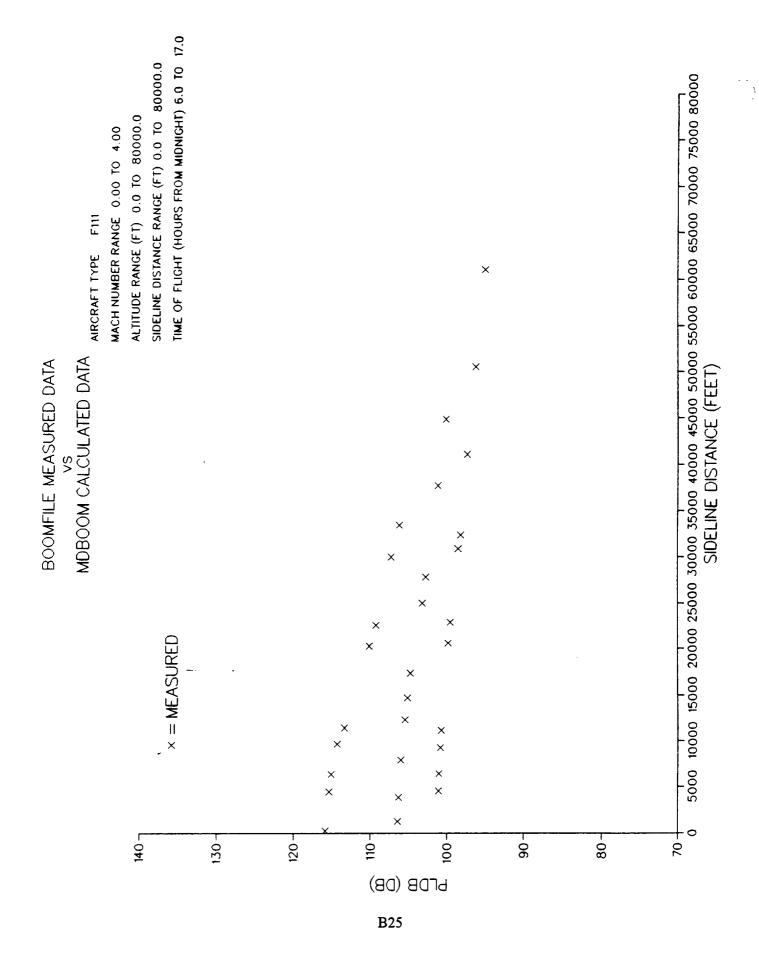


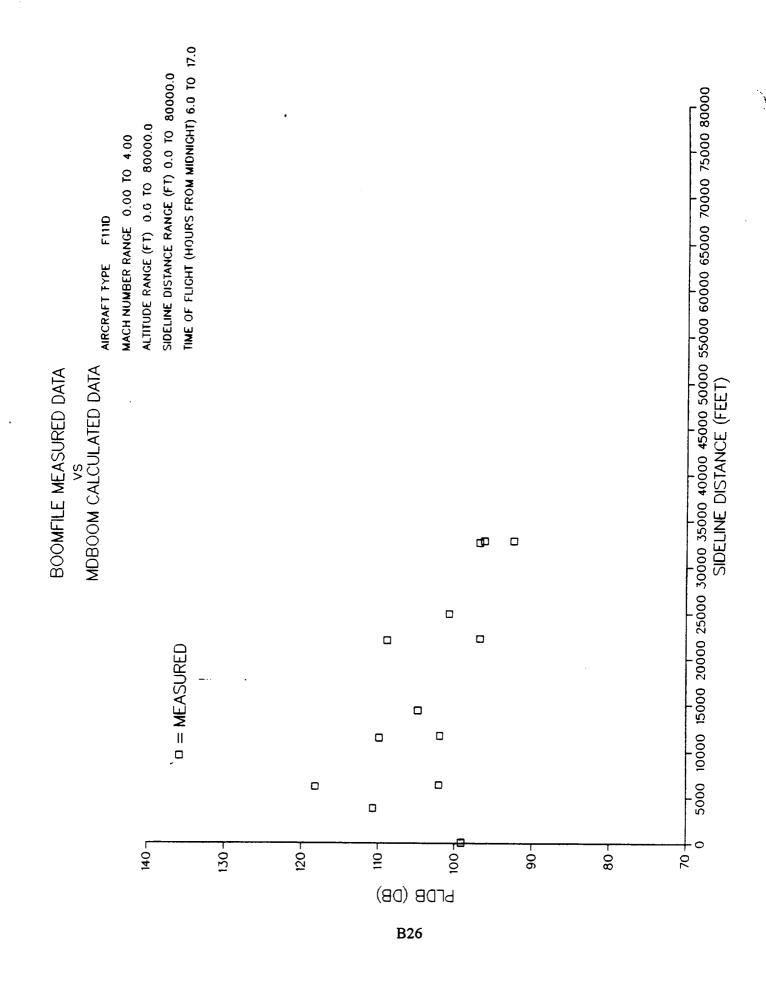


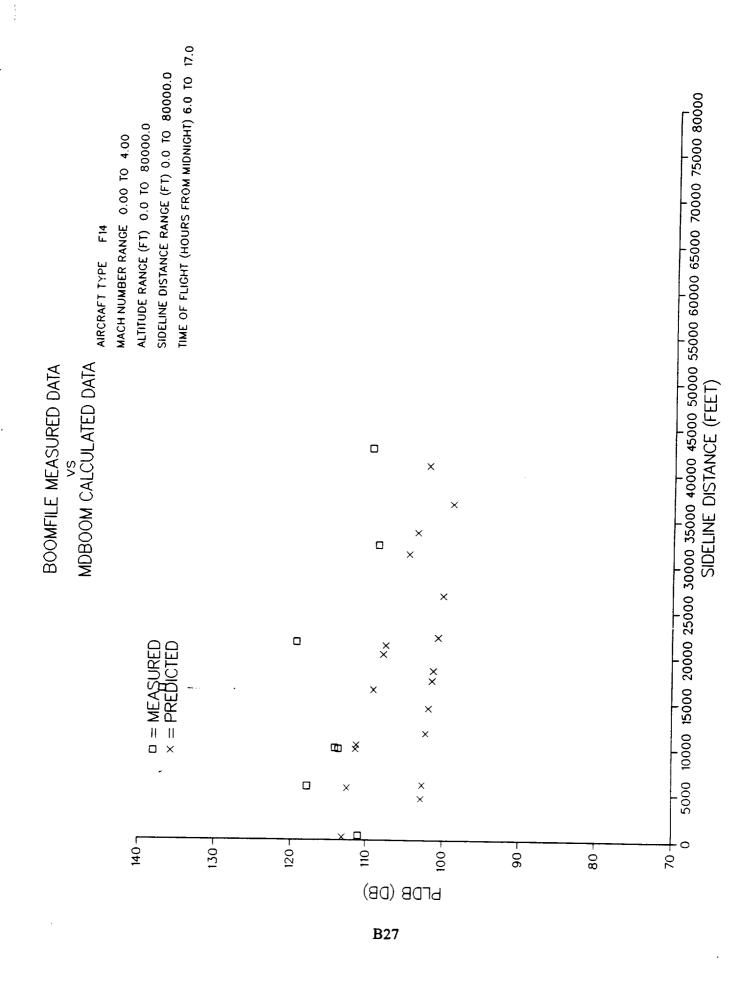


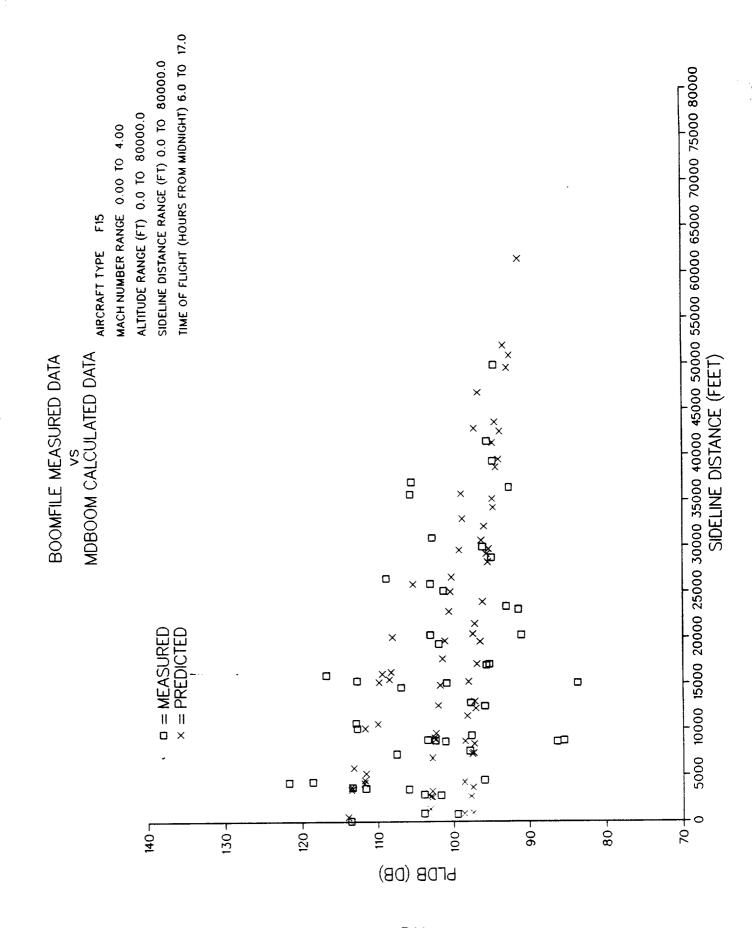


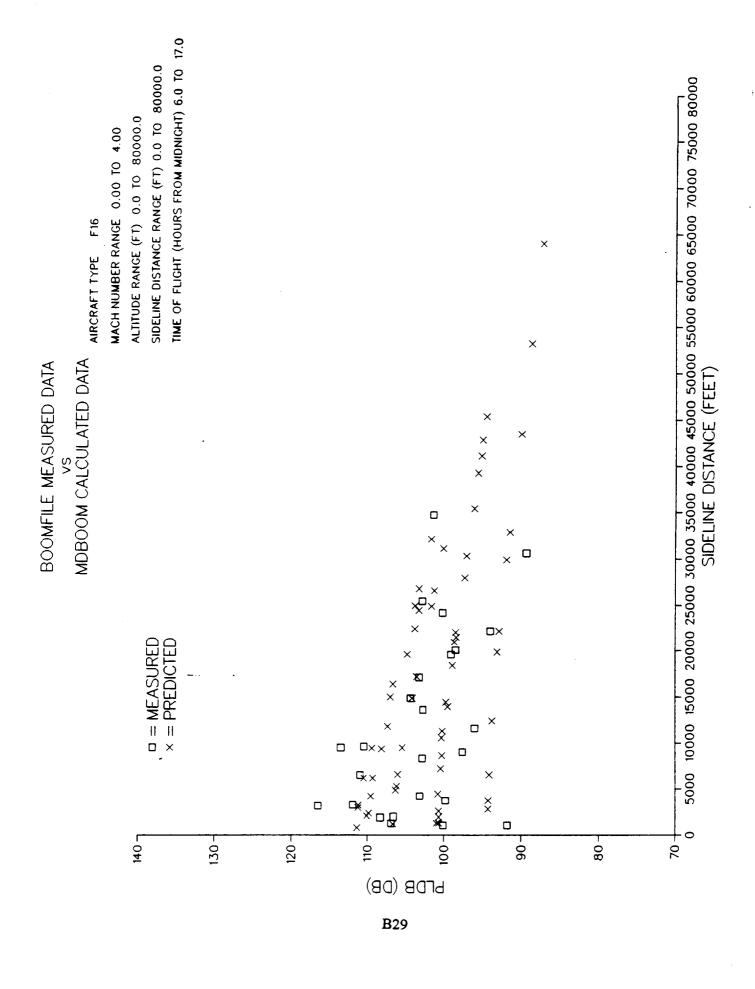


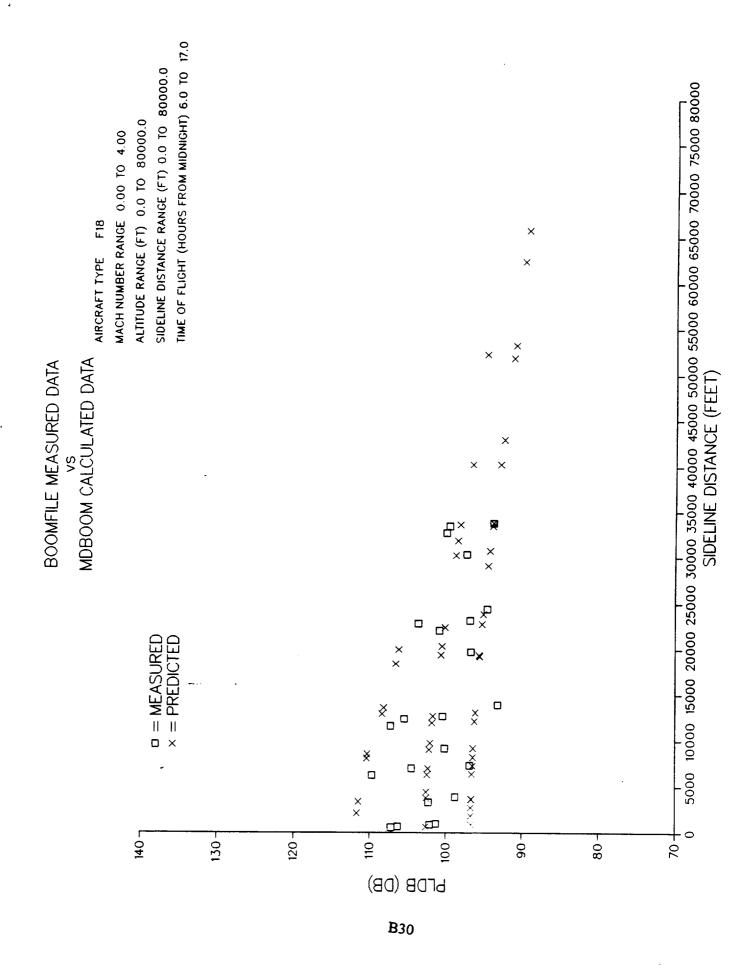


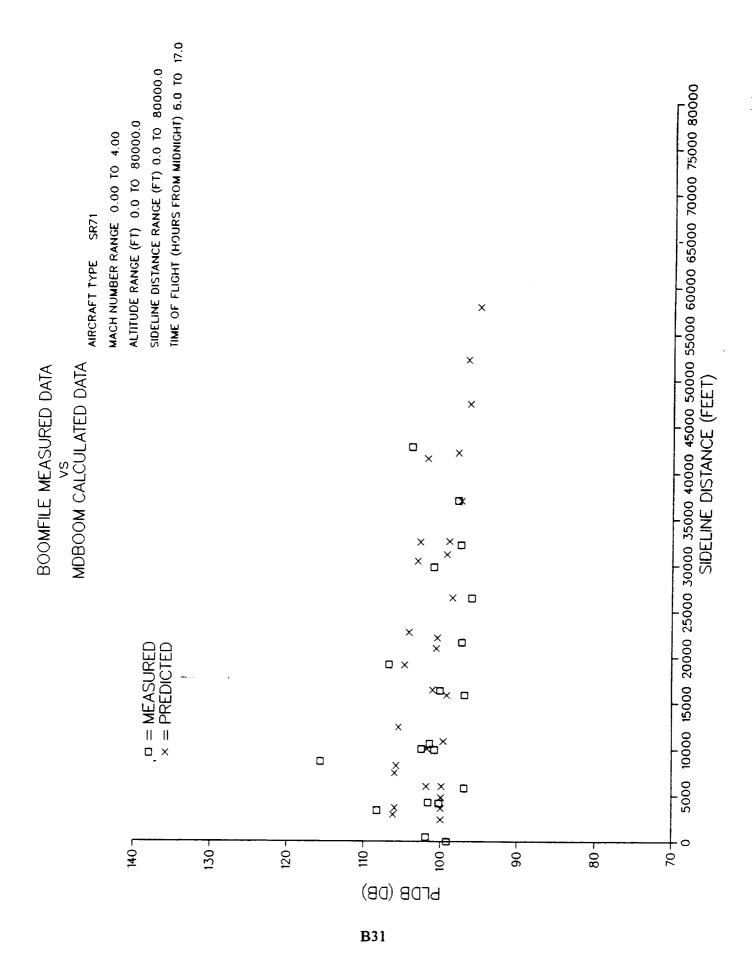


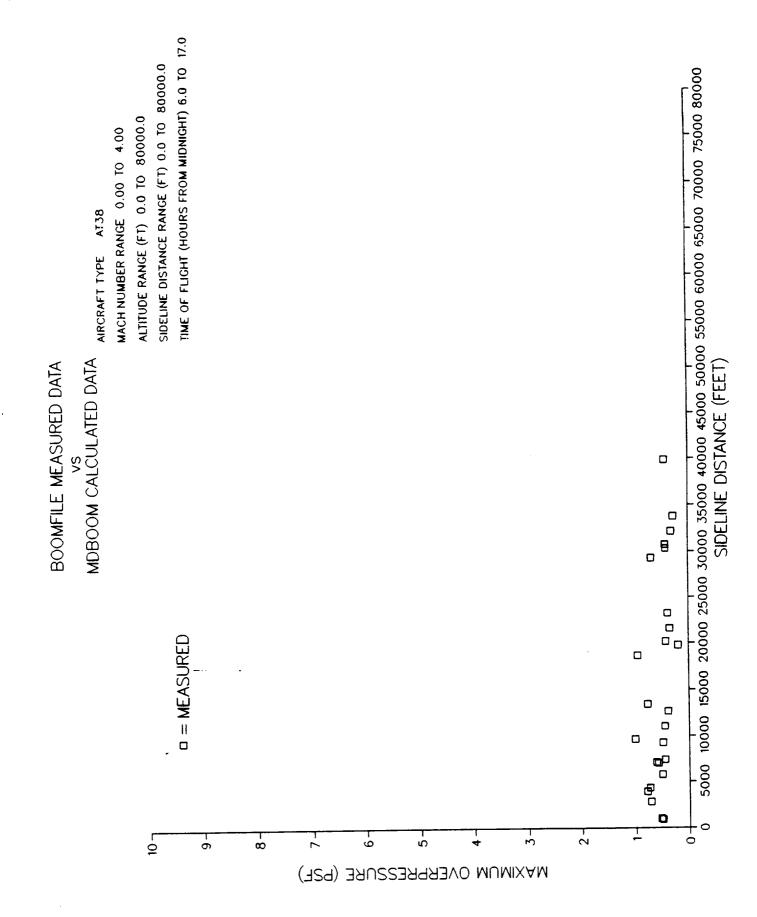


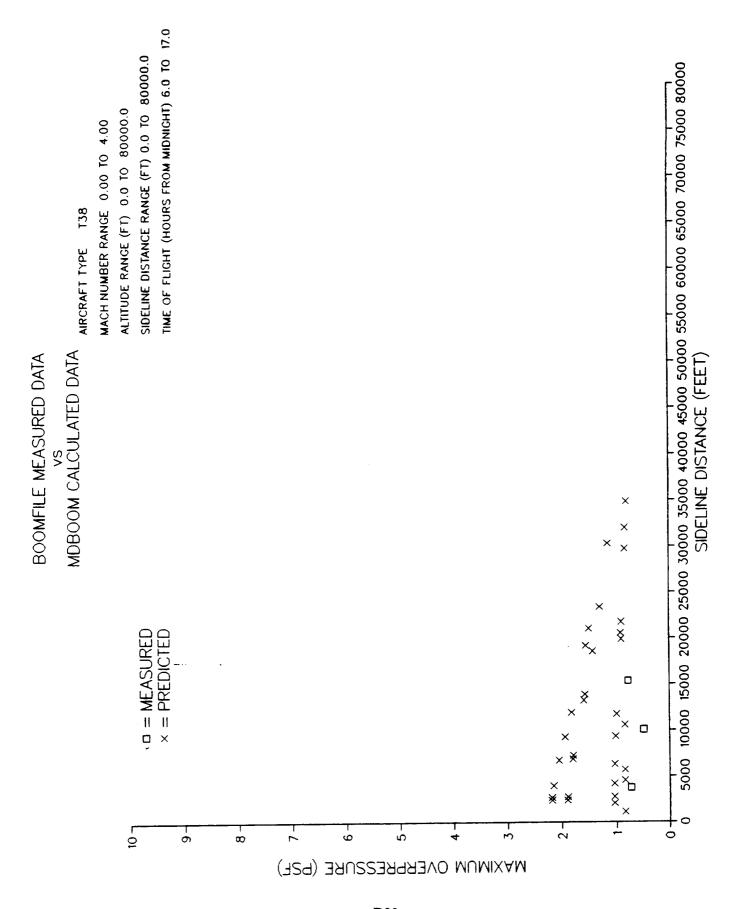


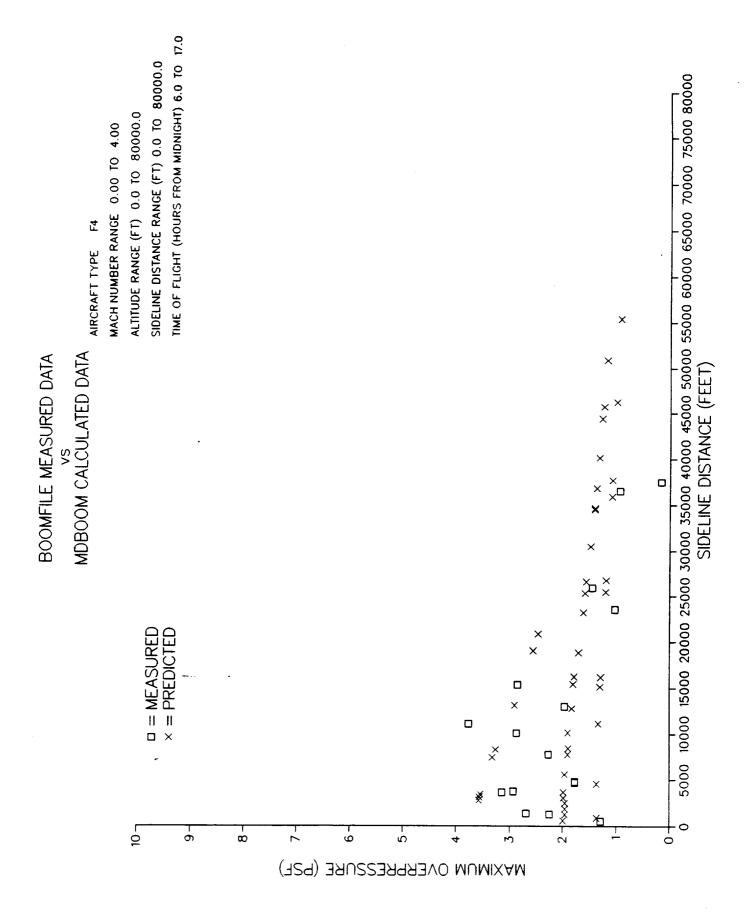


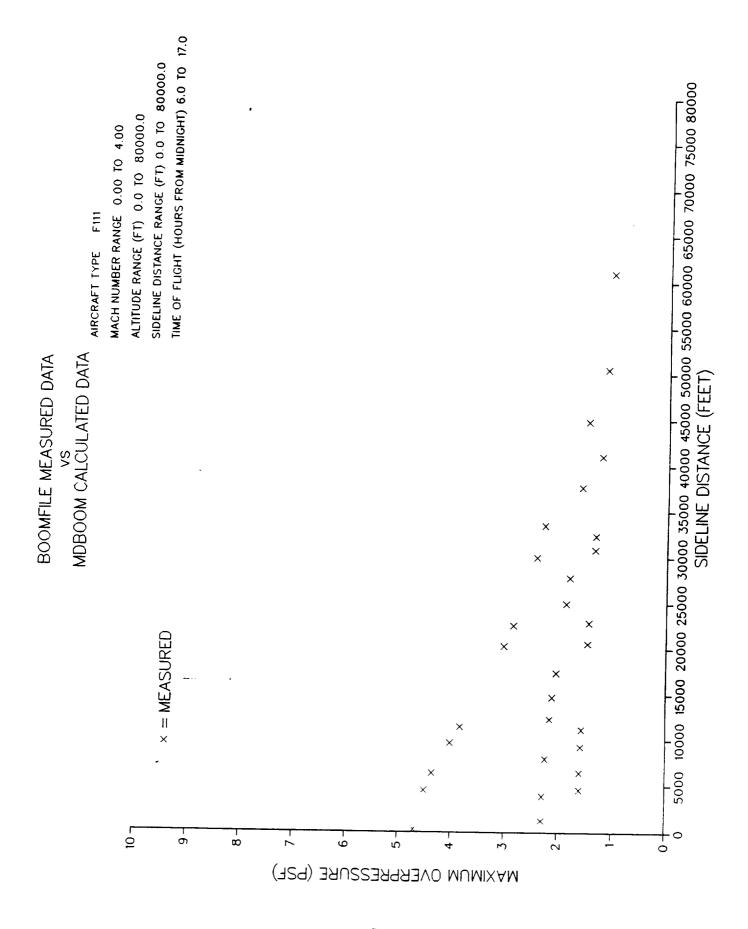


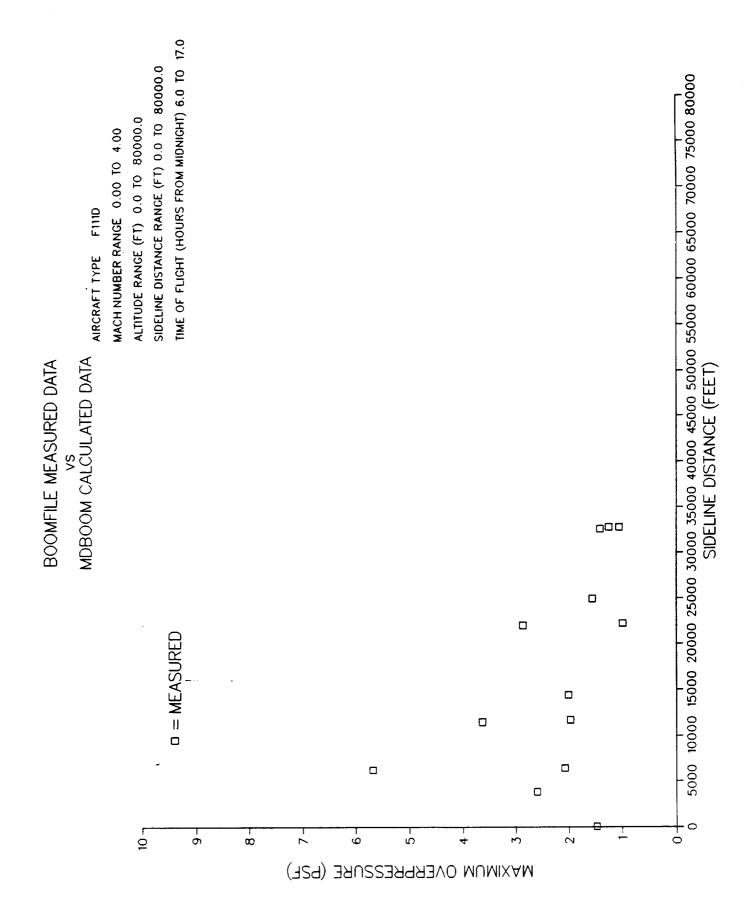


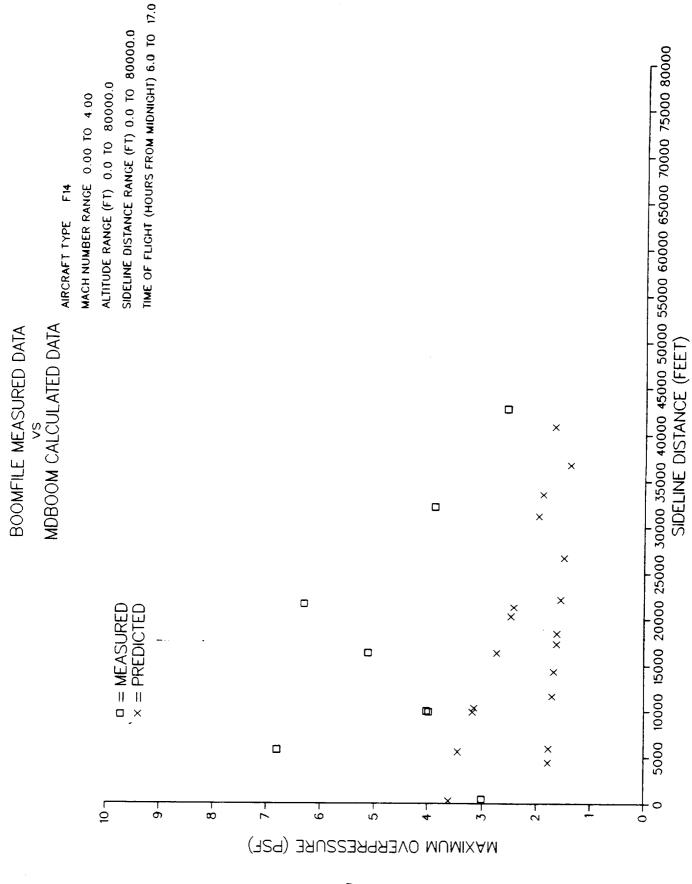


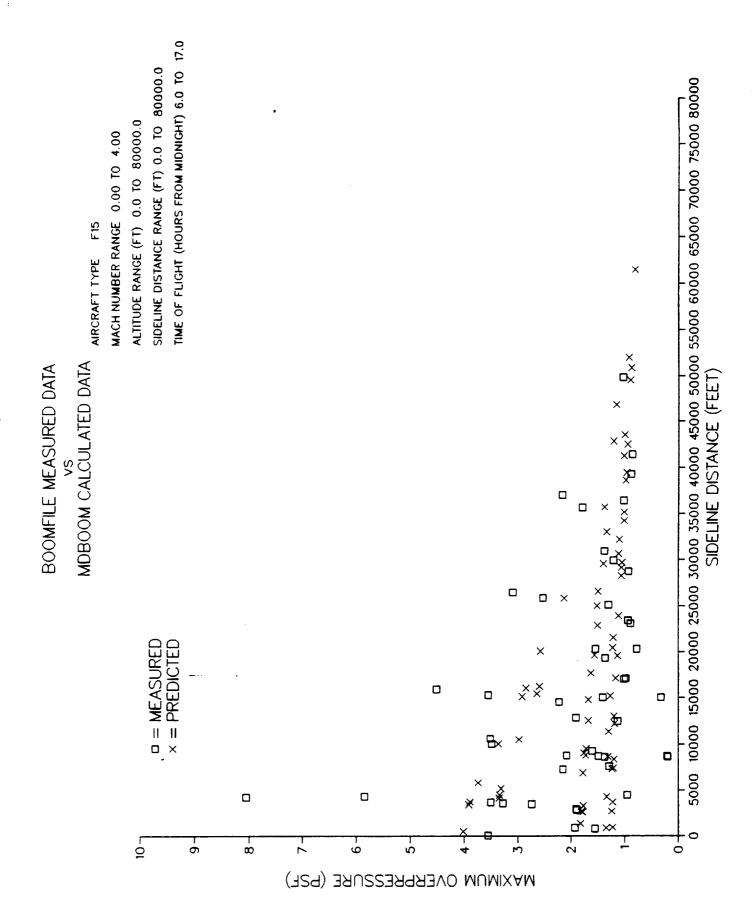


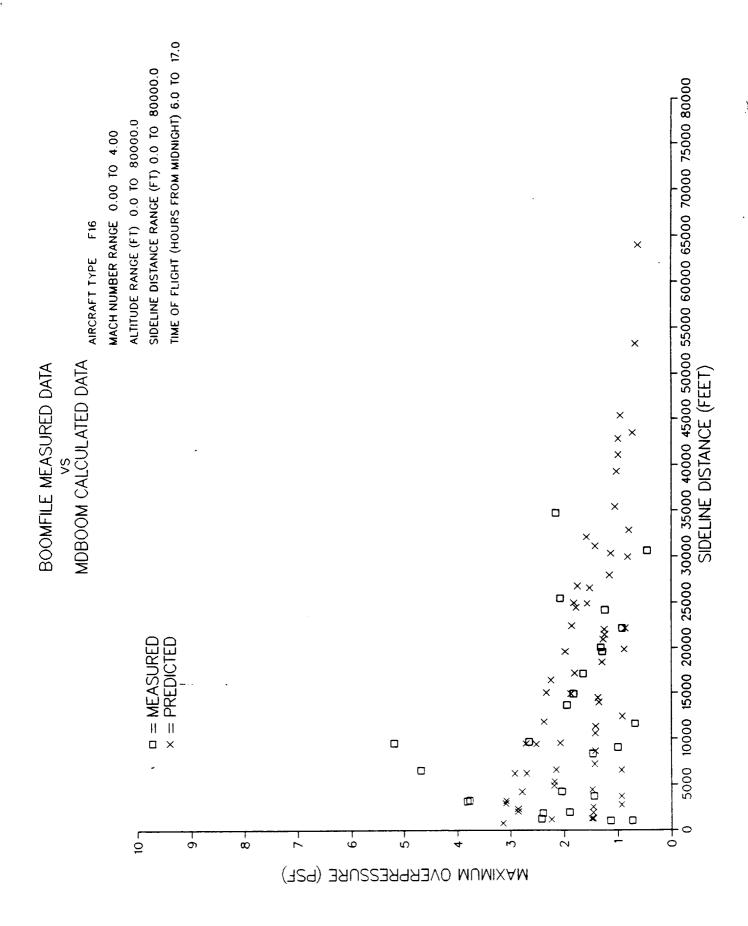


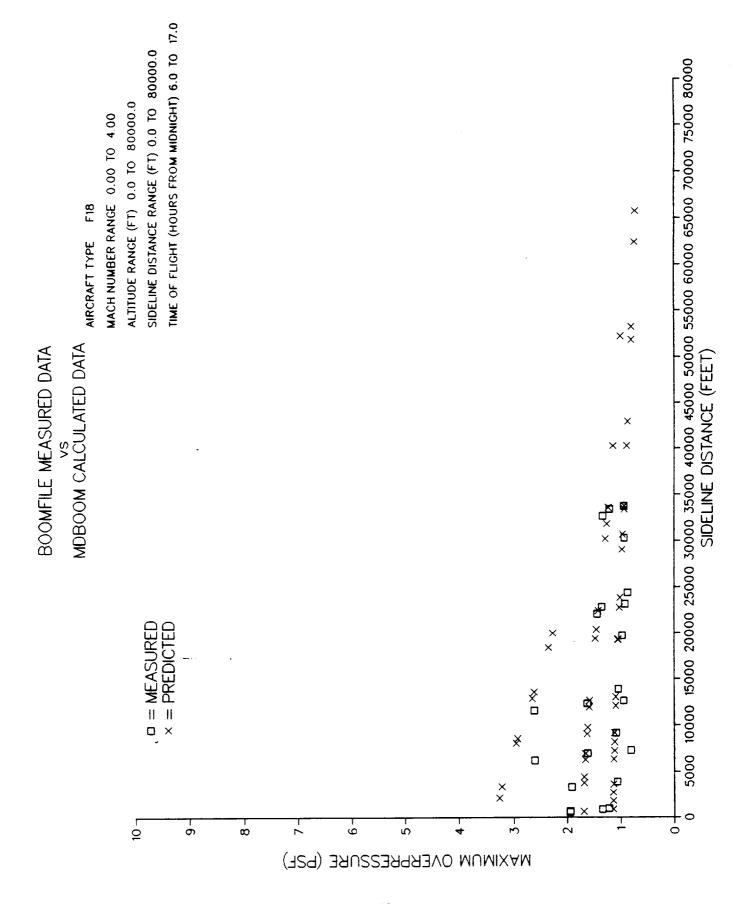


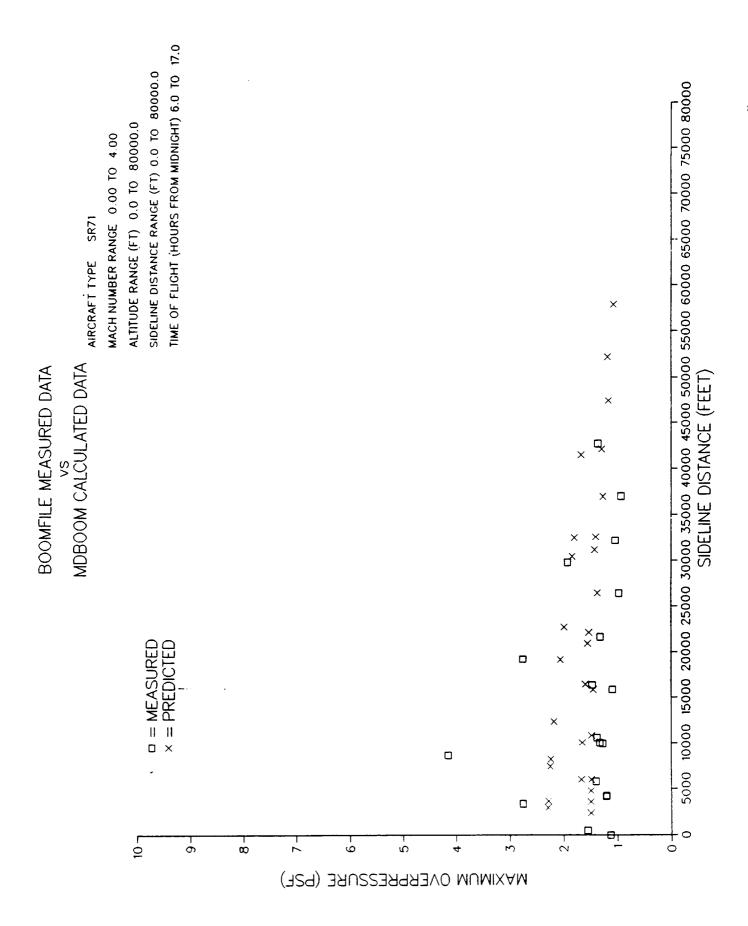


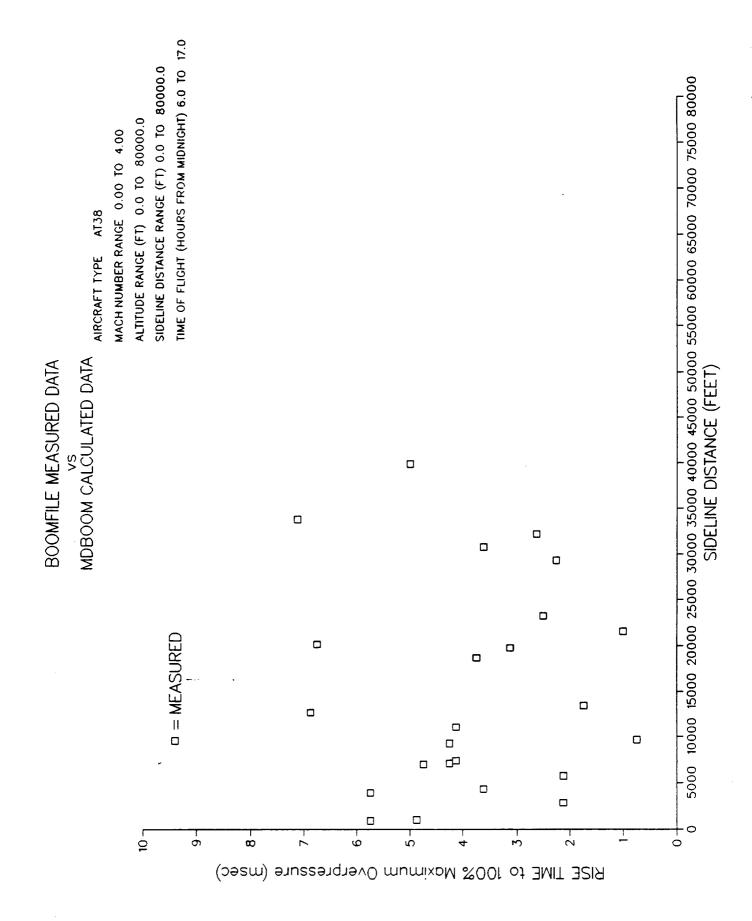


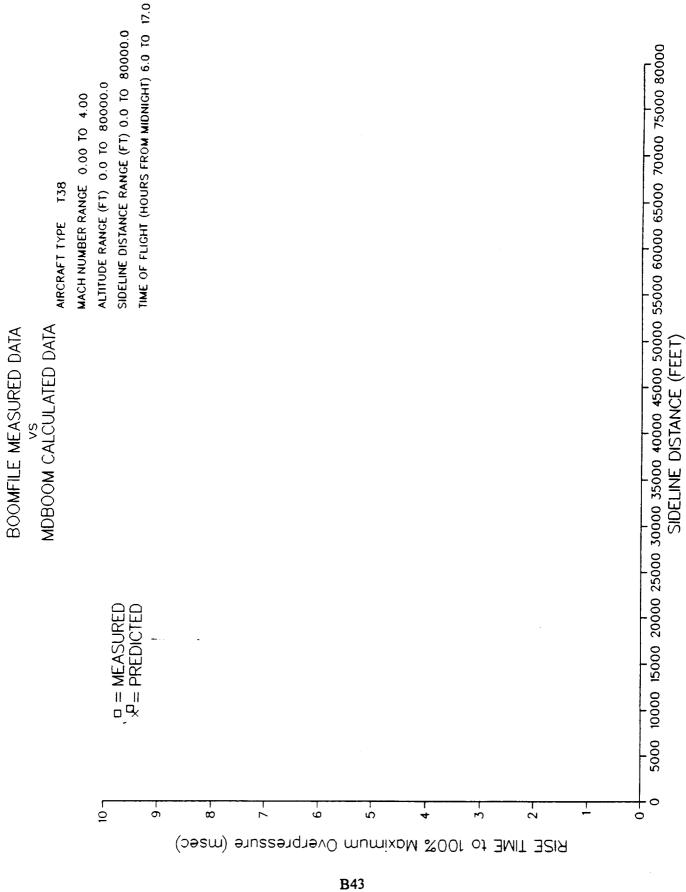


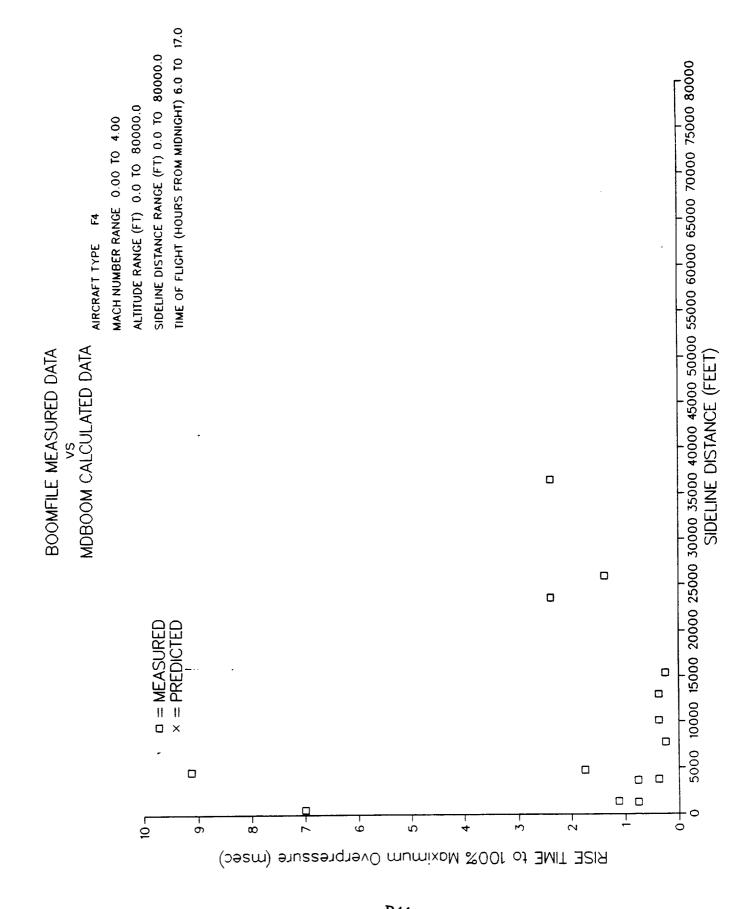


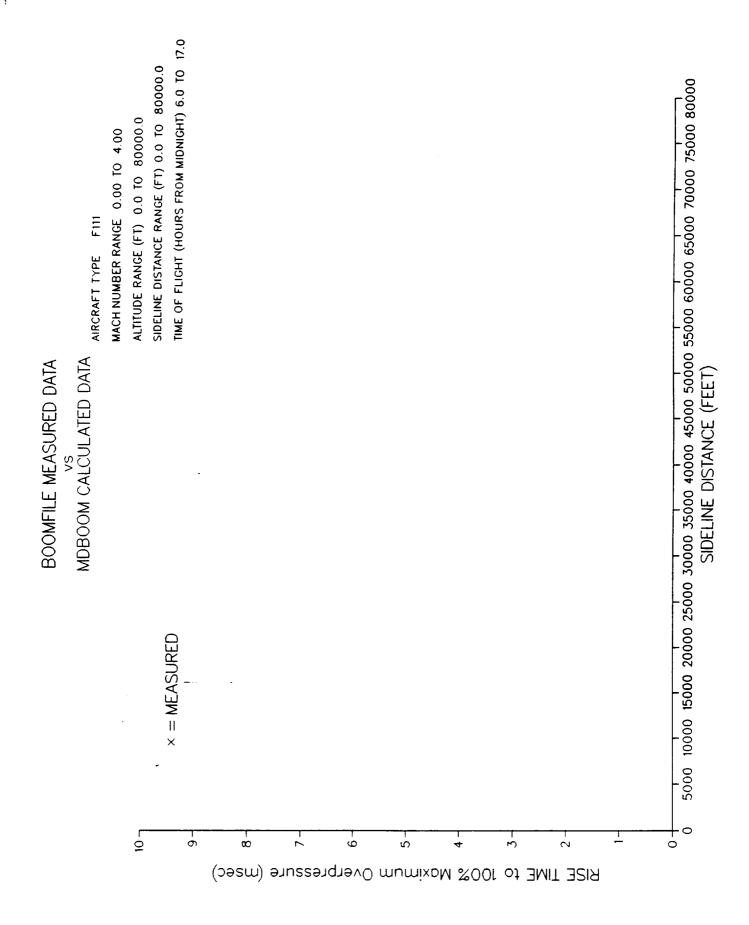


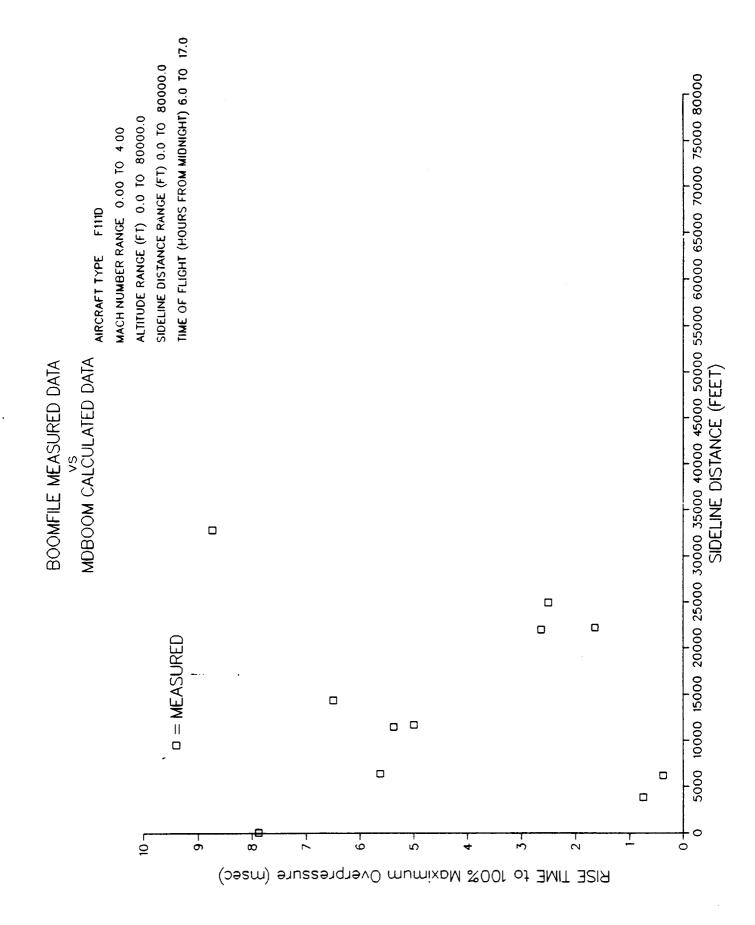


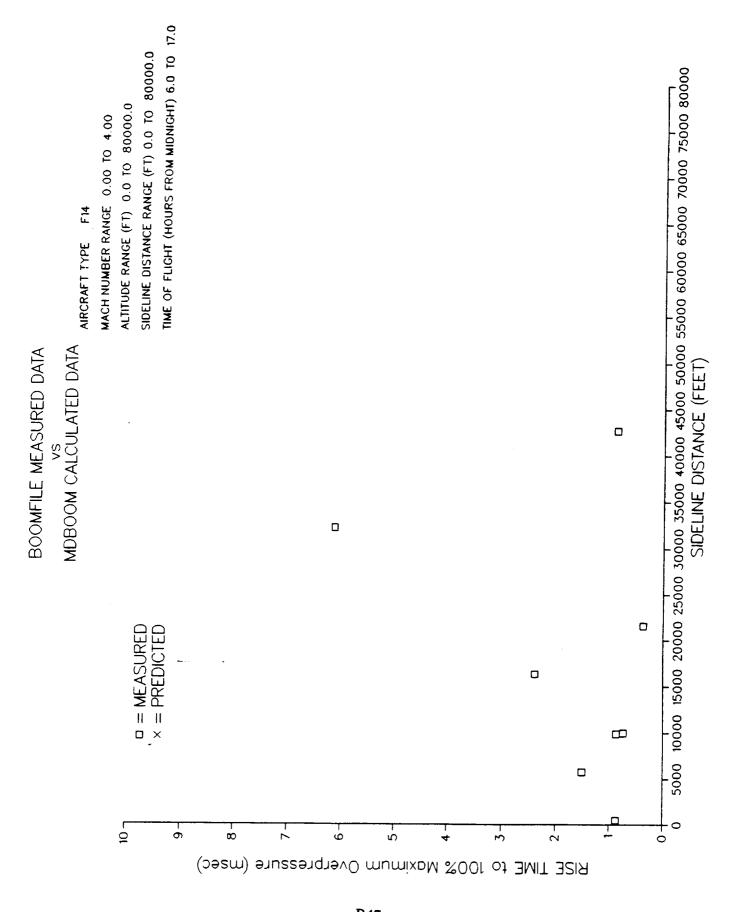


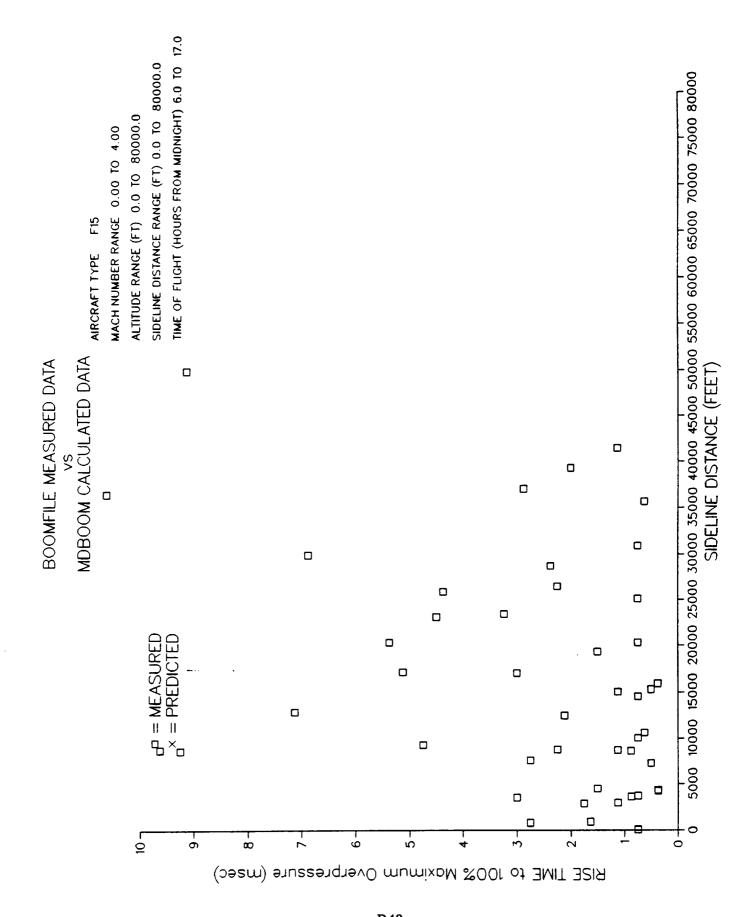


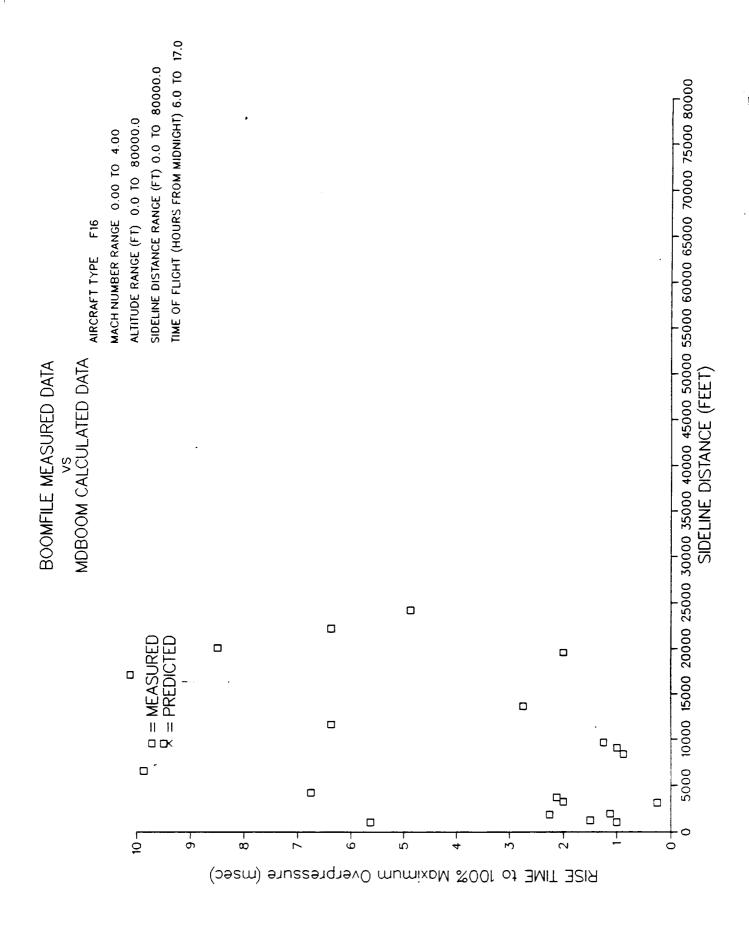


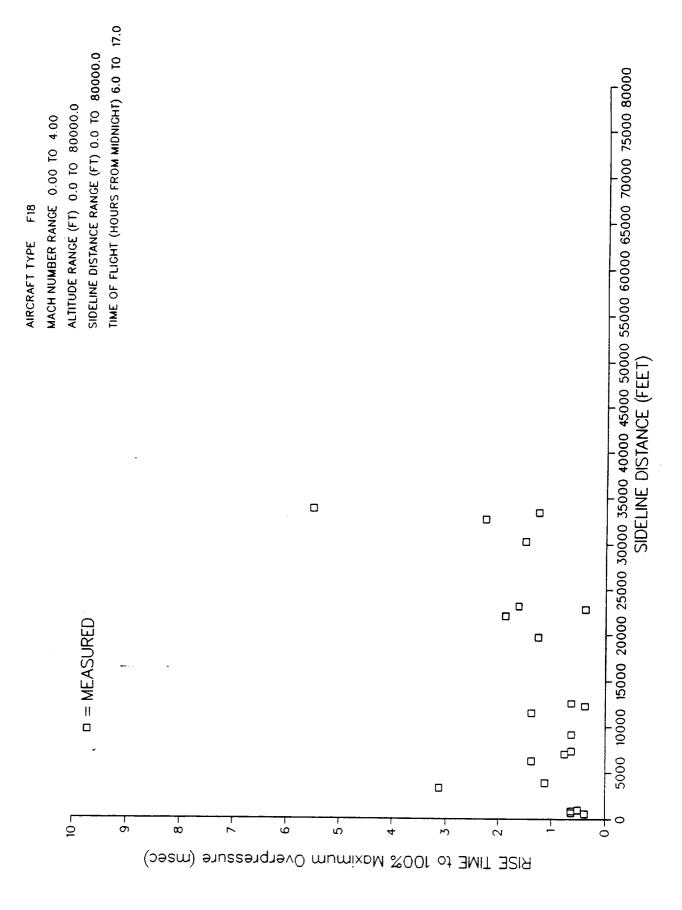


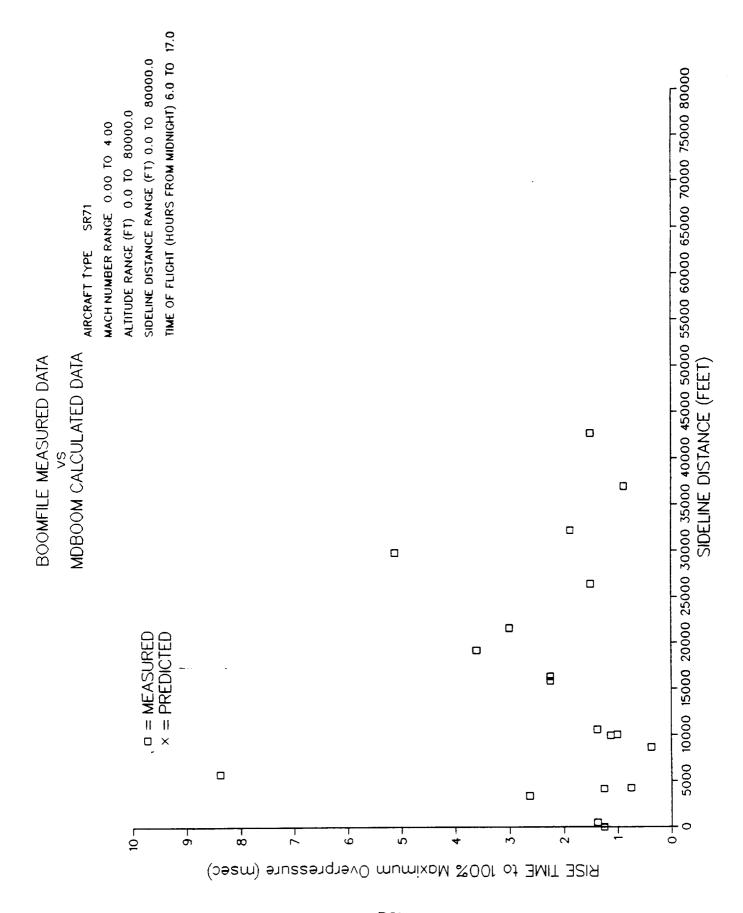


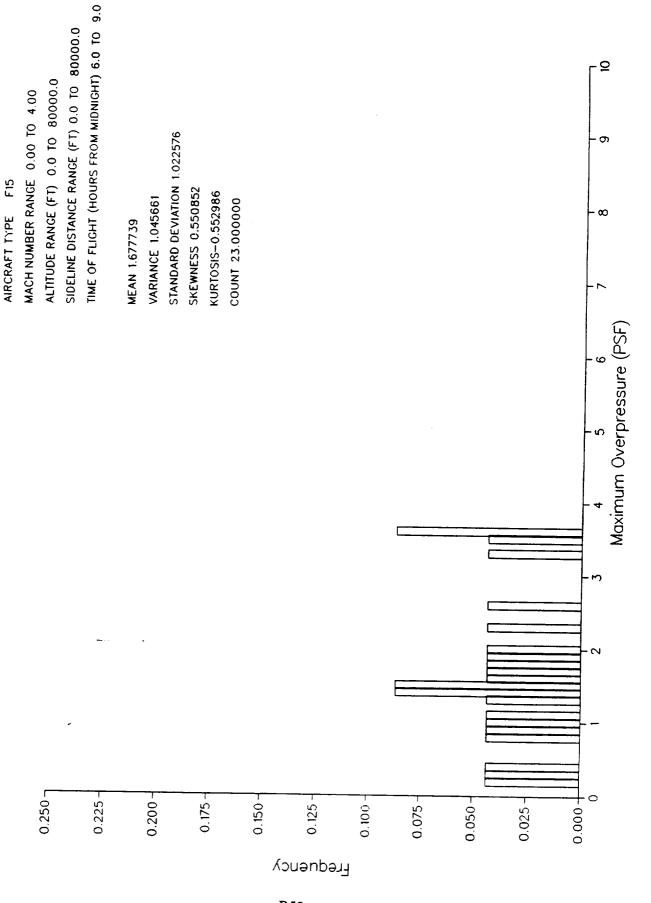


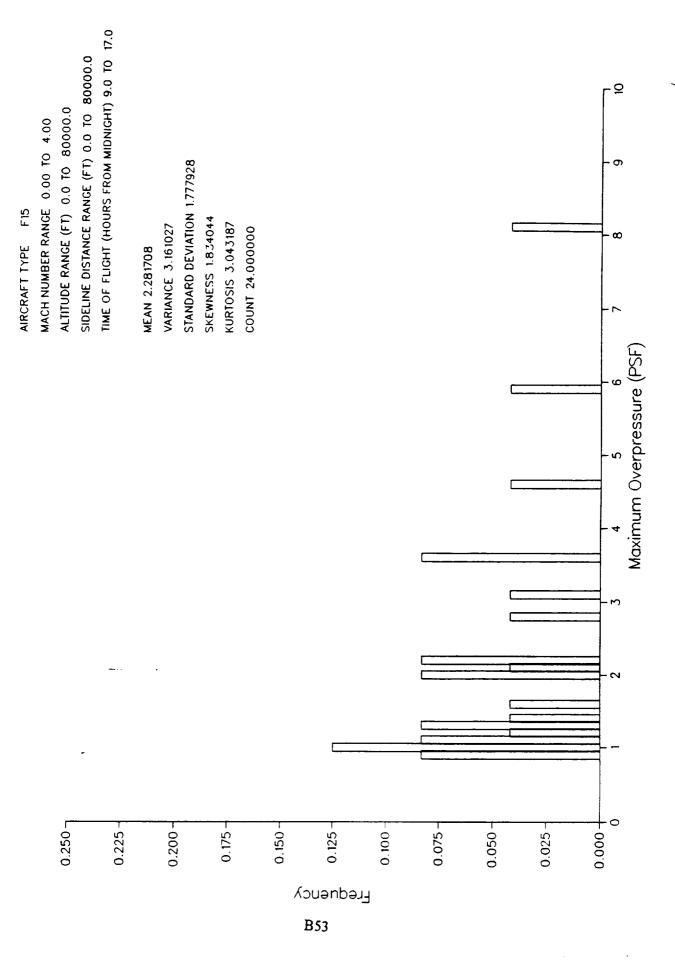


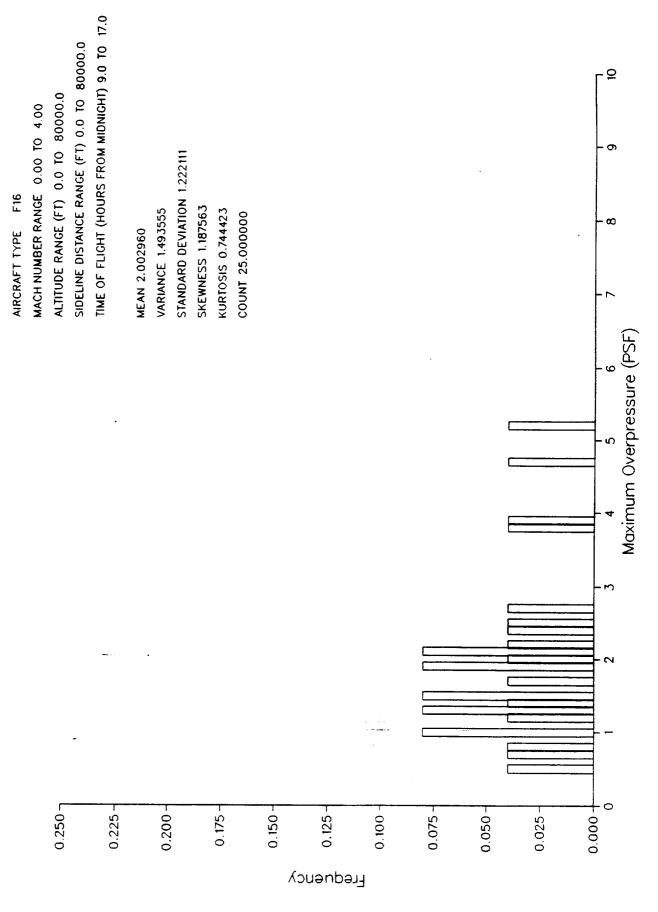


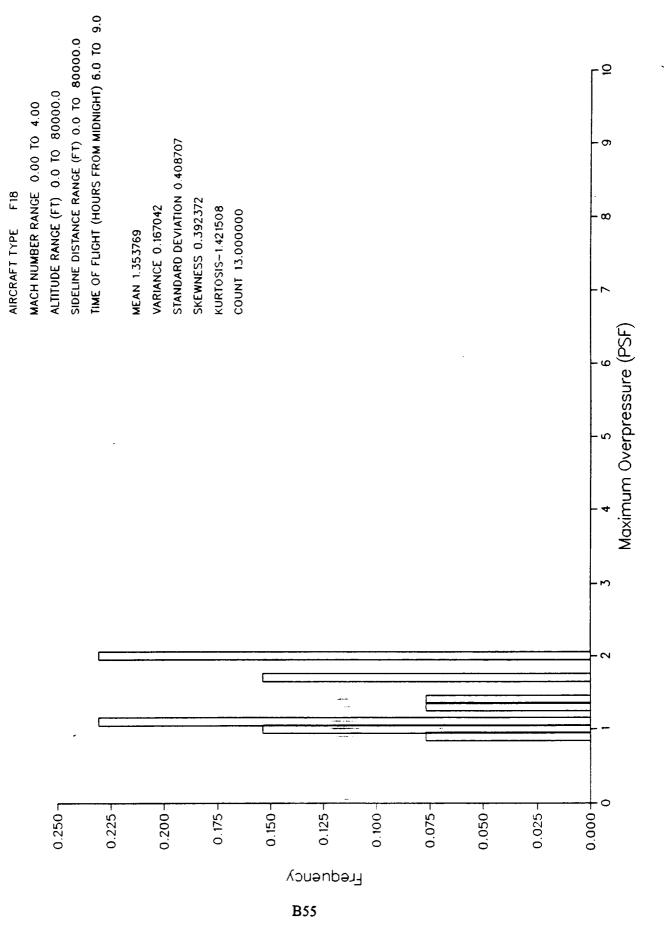


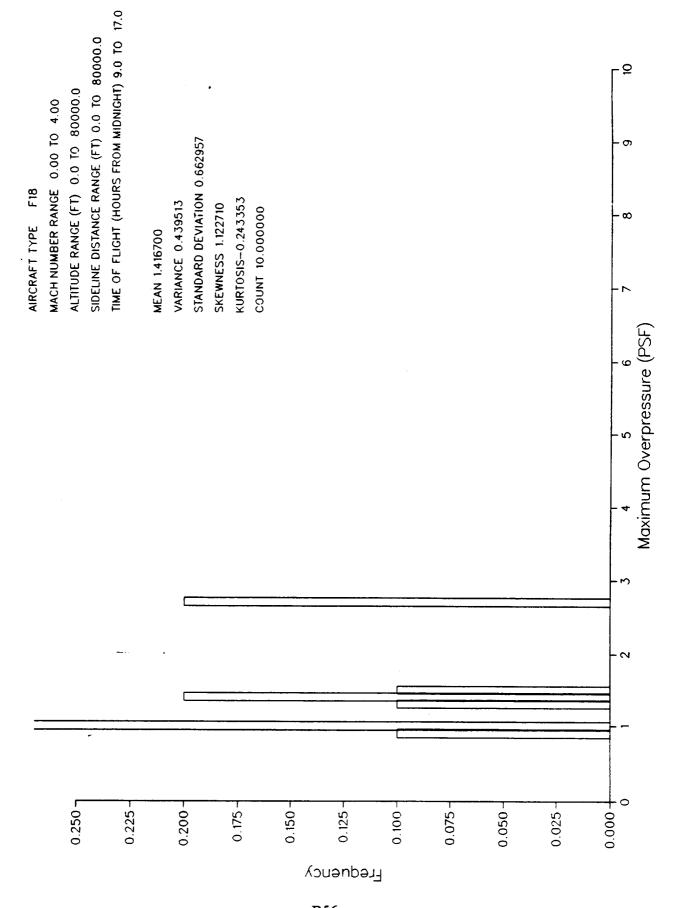




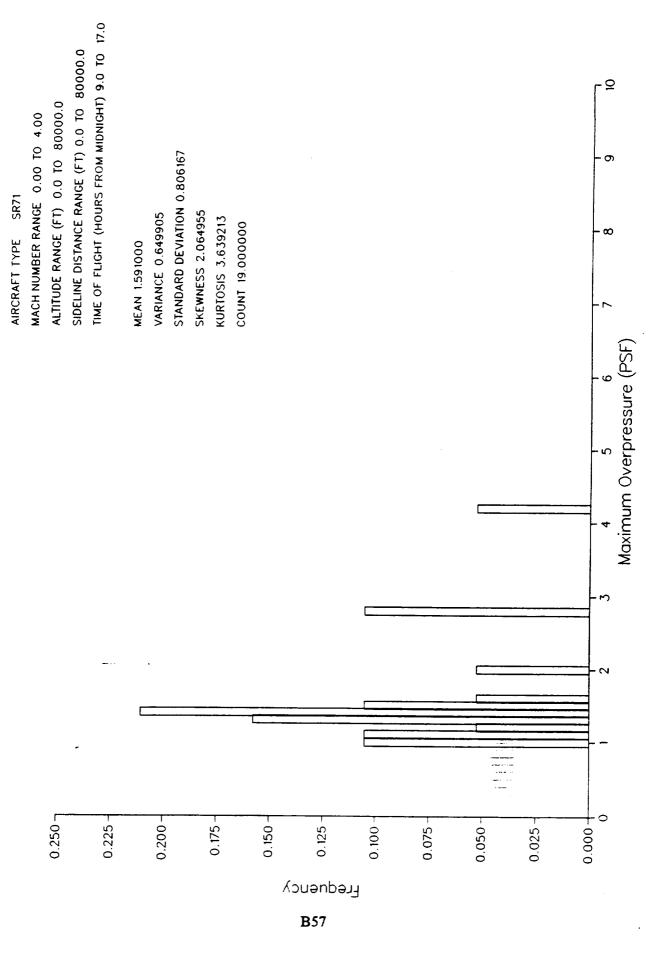


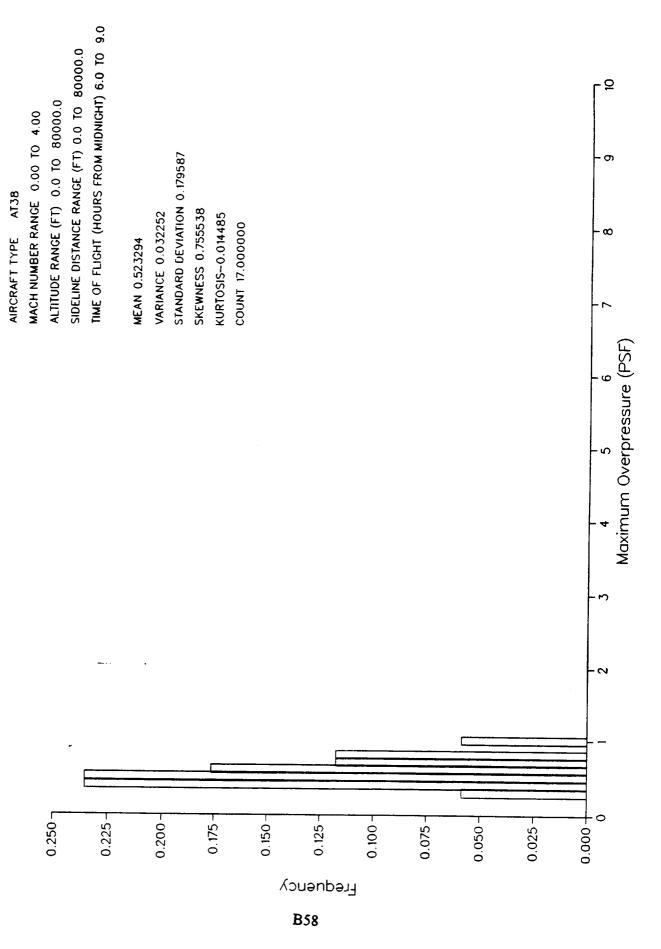


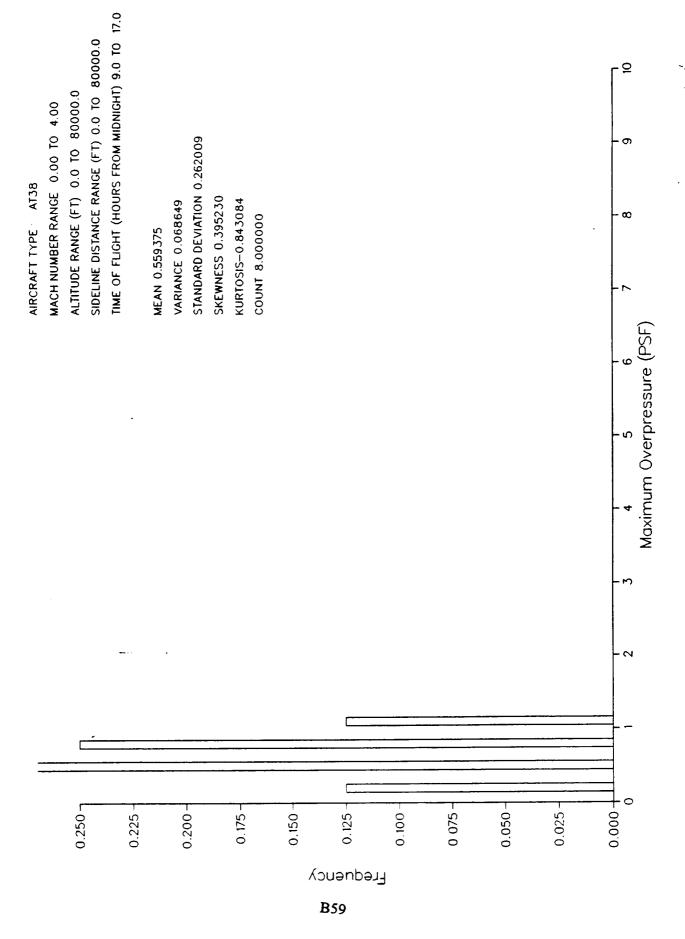


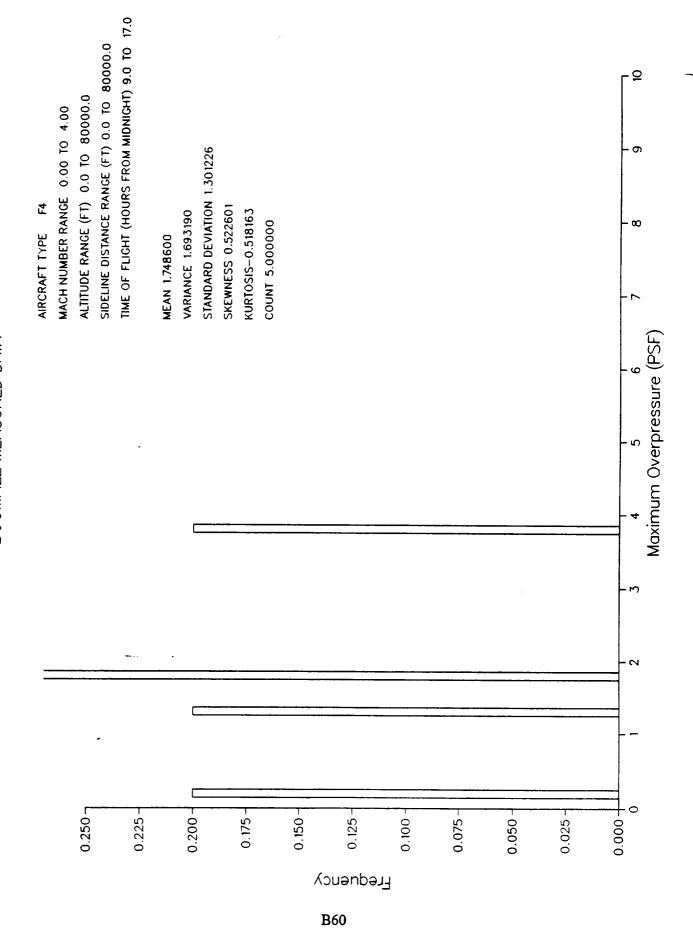


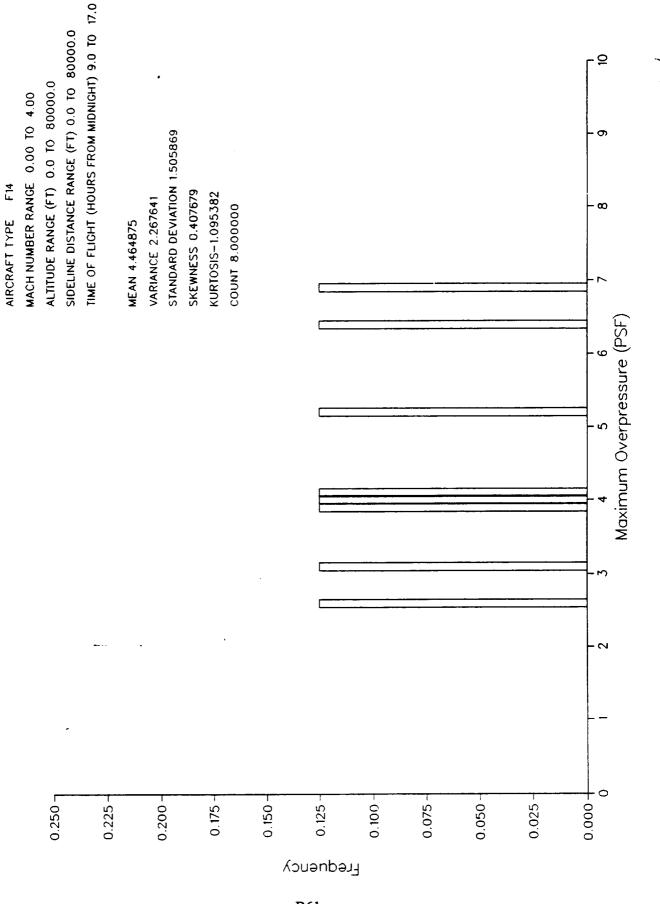
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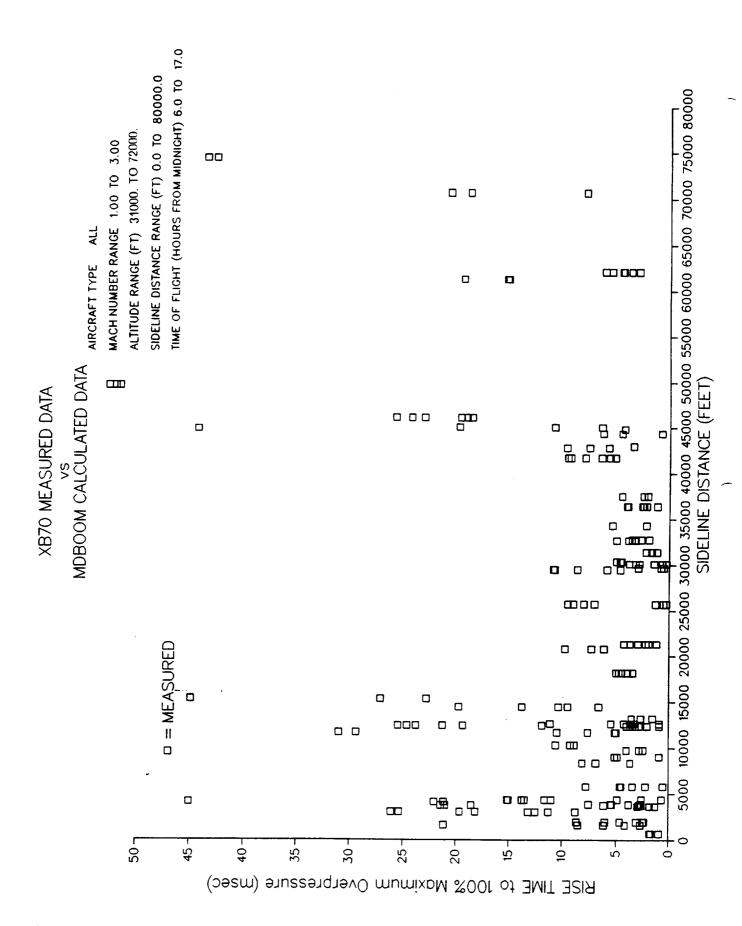


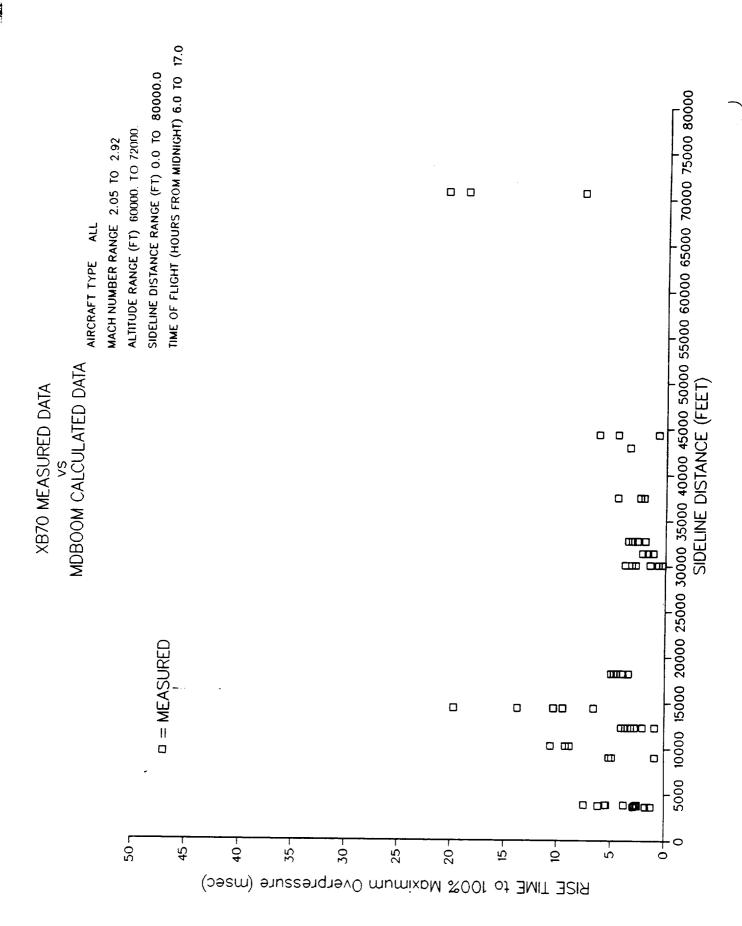




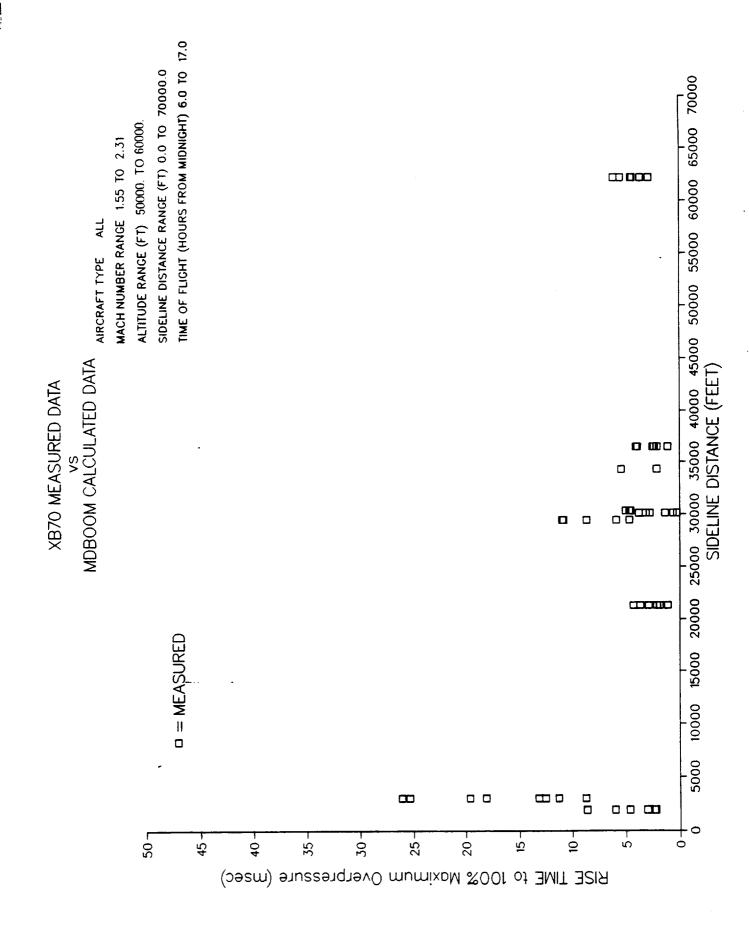


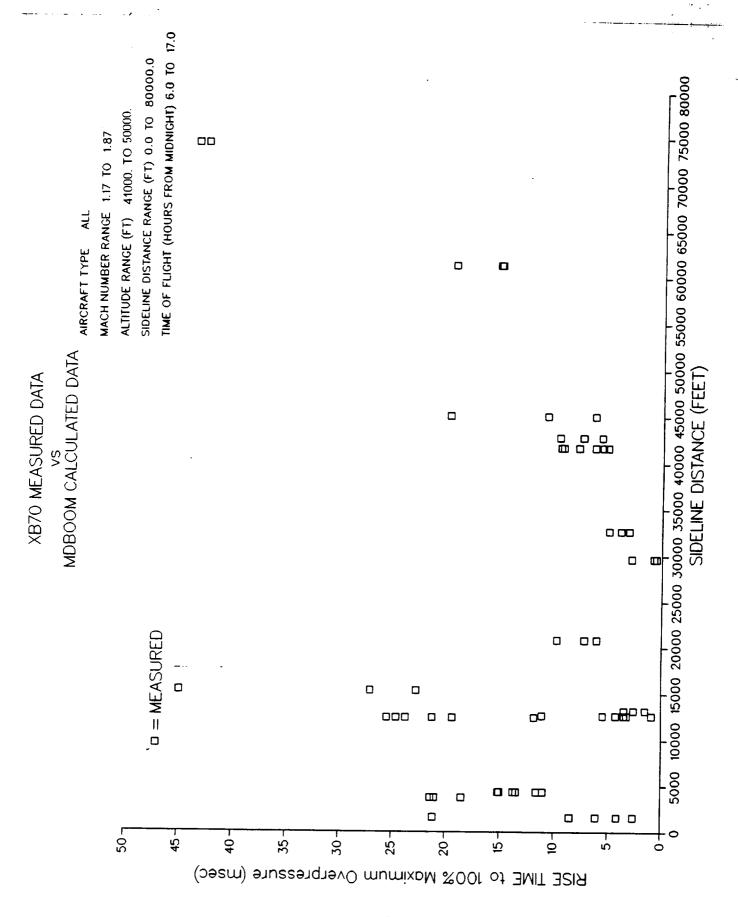
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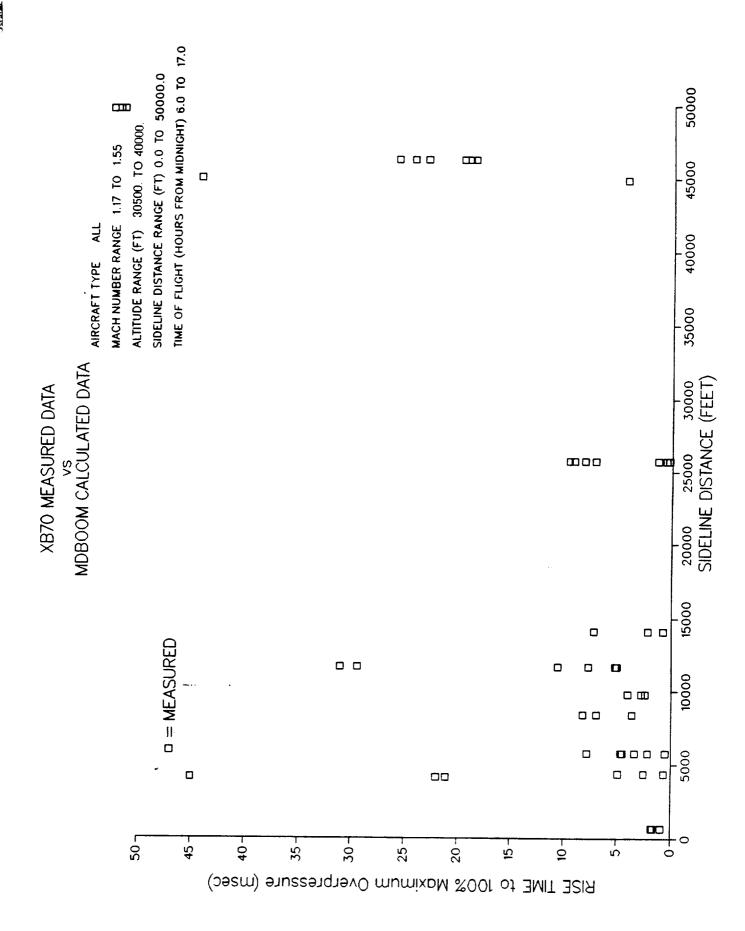


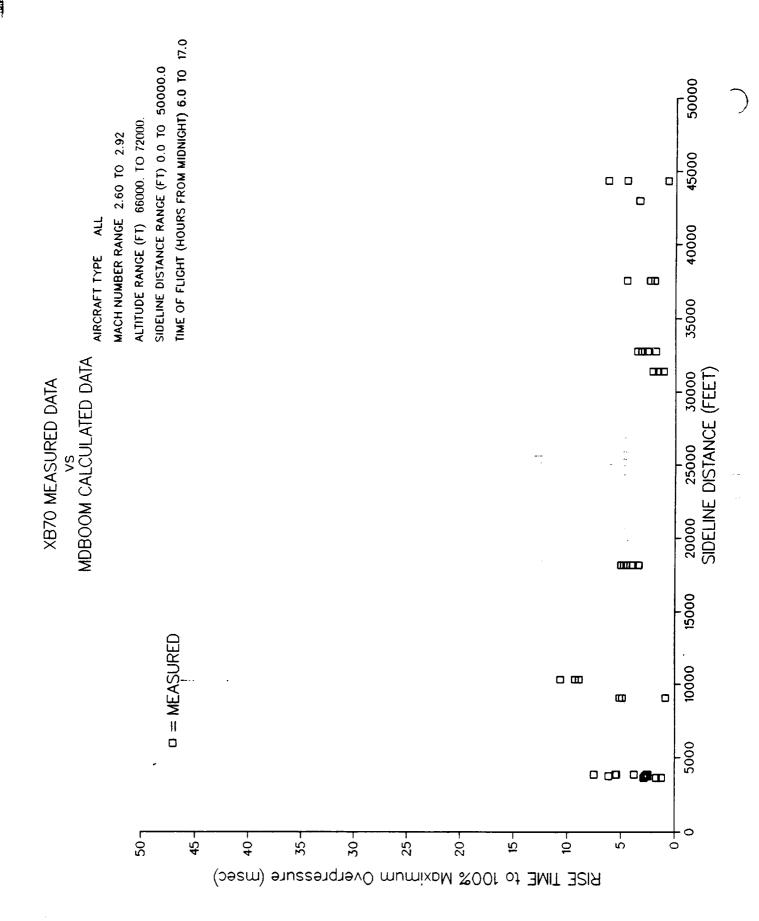


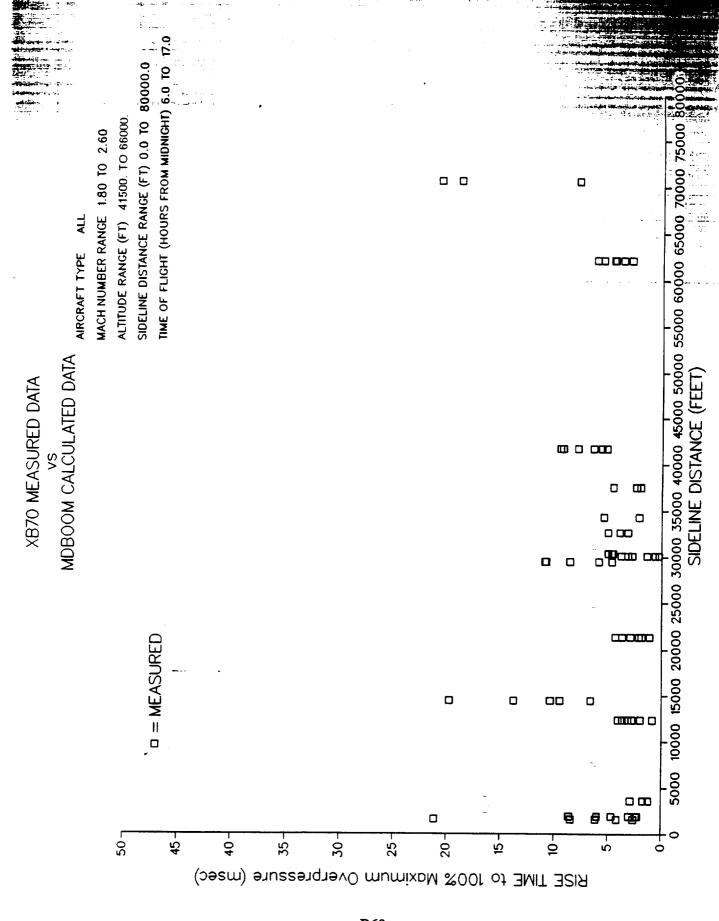
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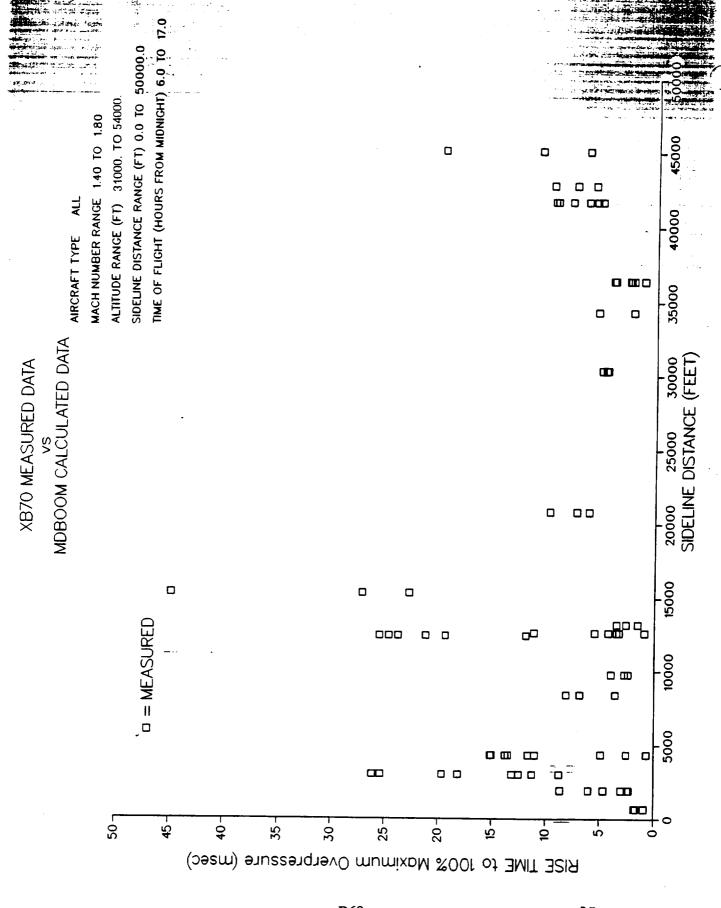


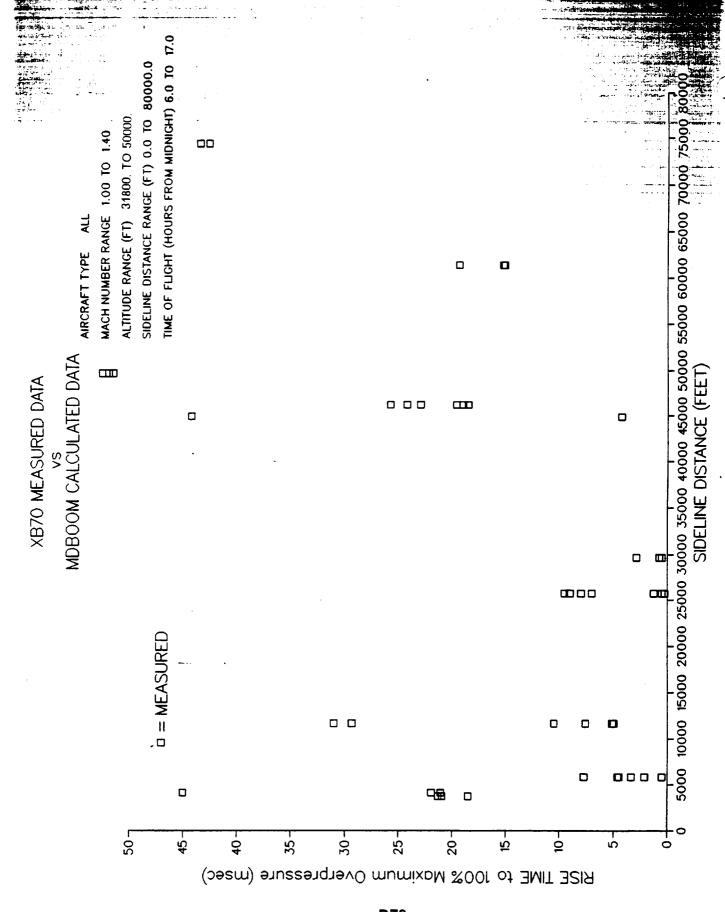






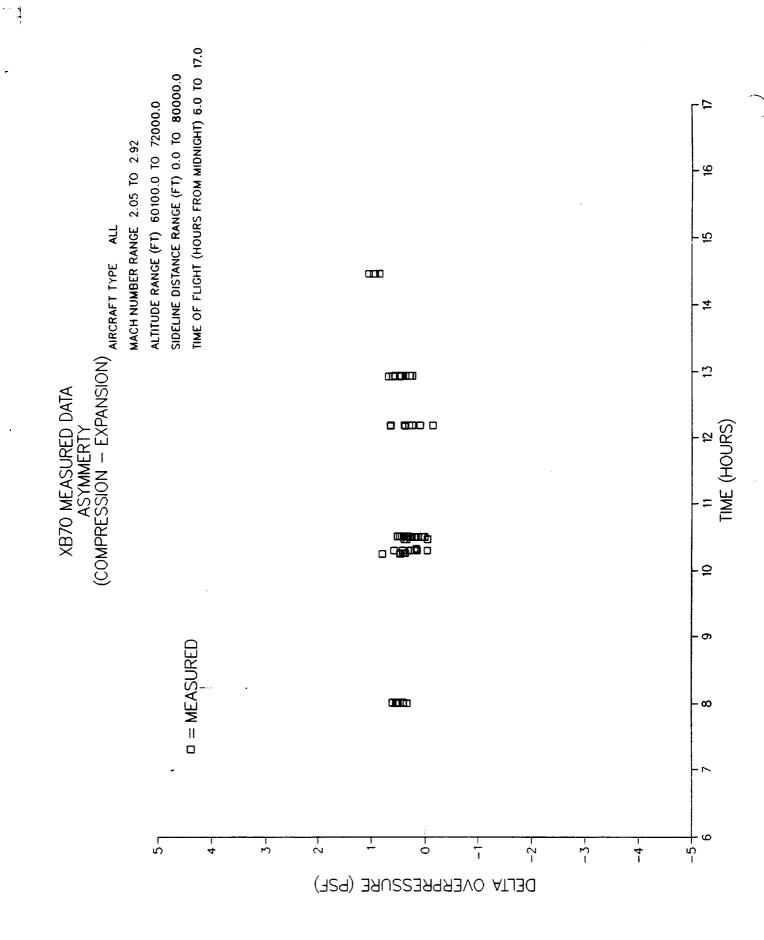


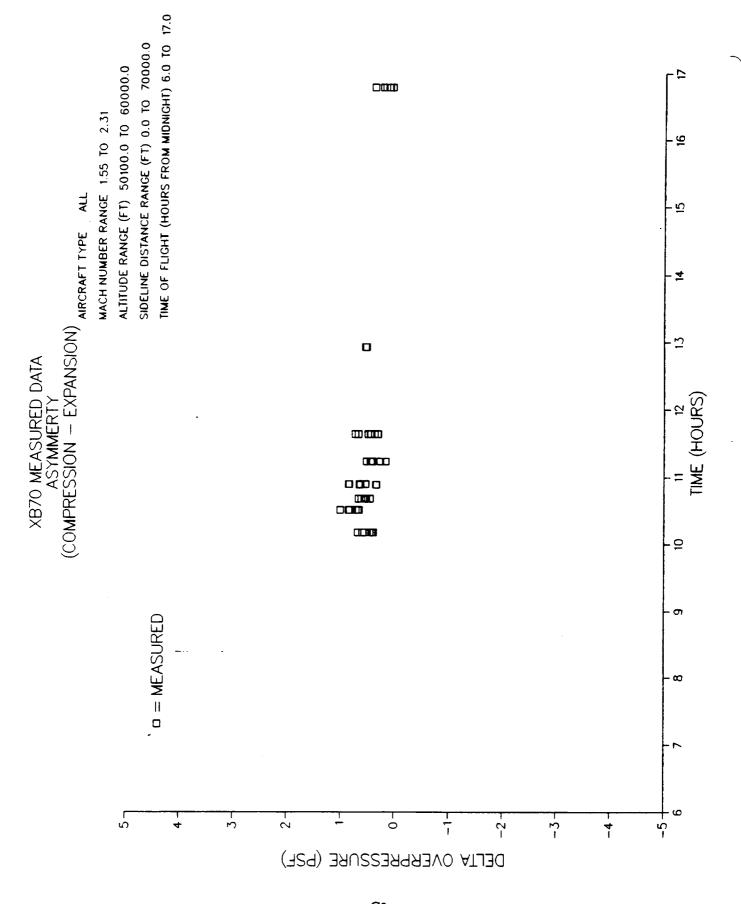


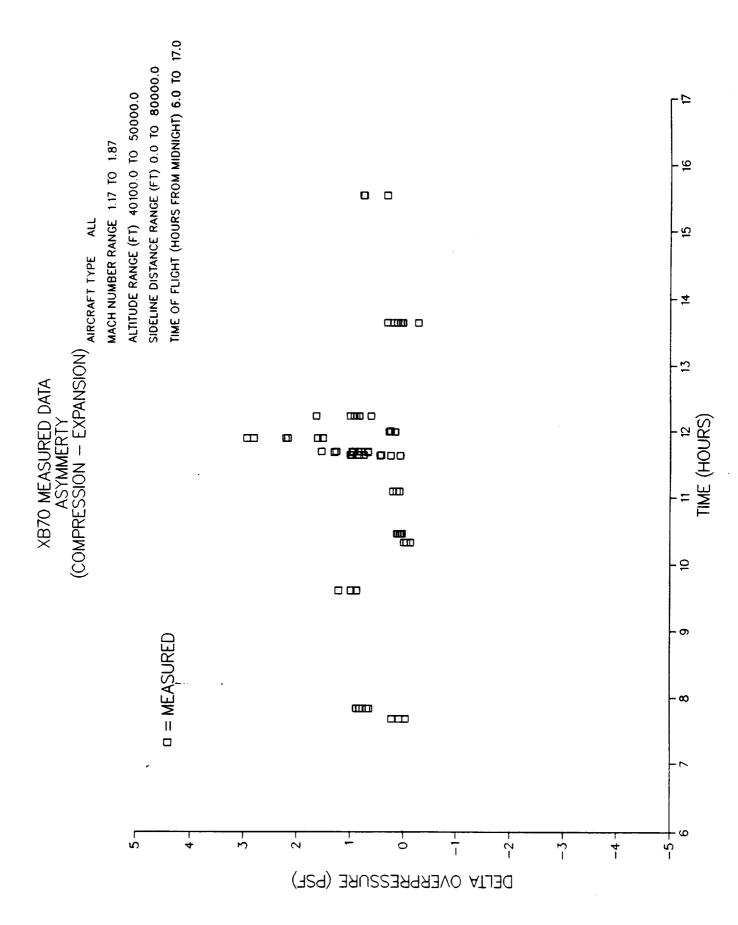


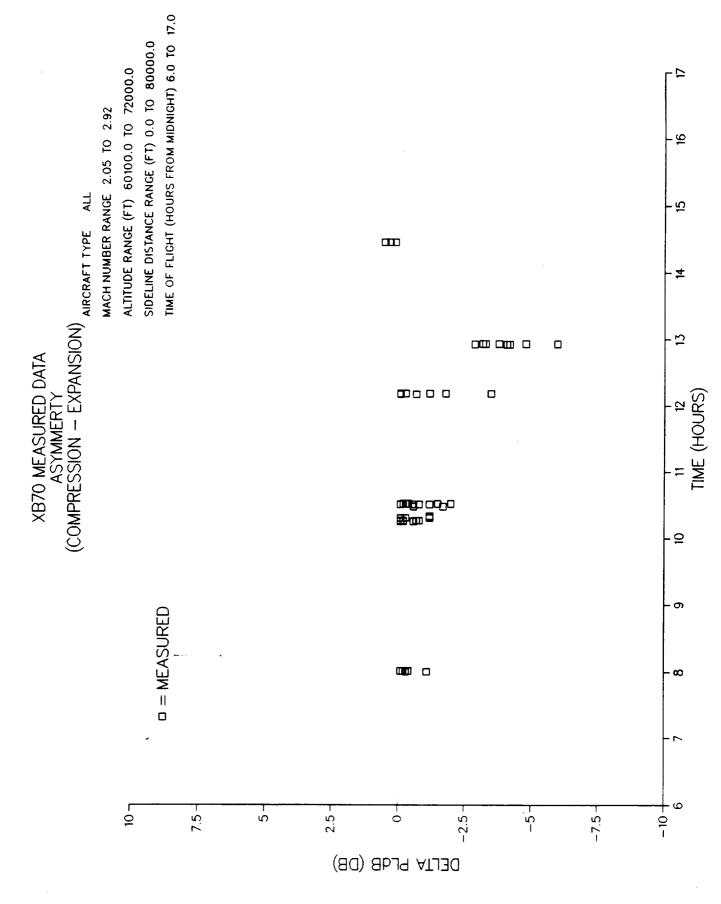
APPENDIX C

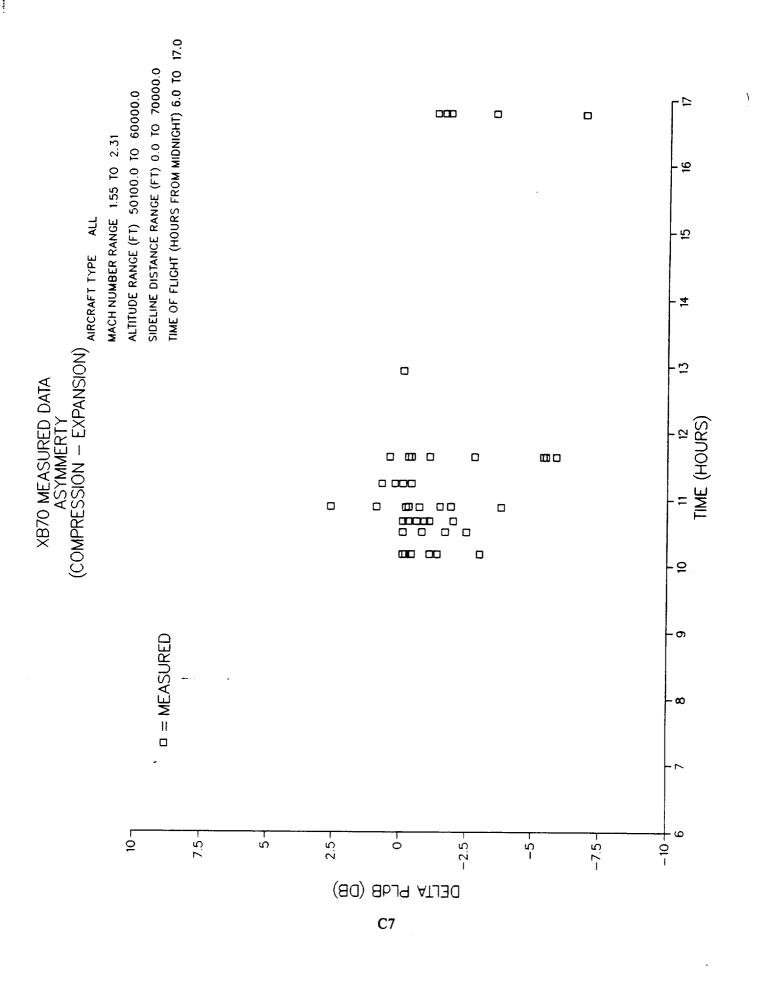
Asymmetry Plots

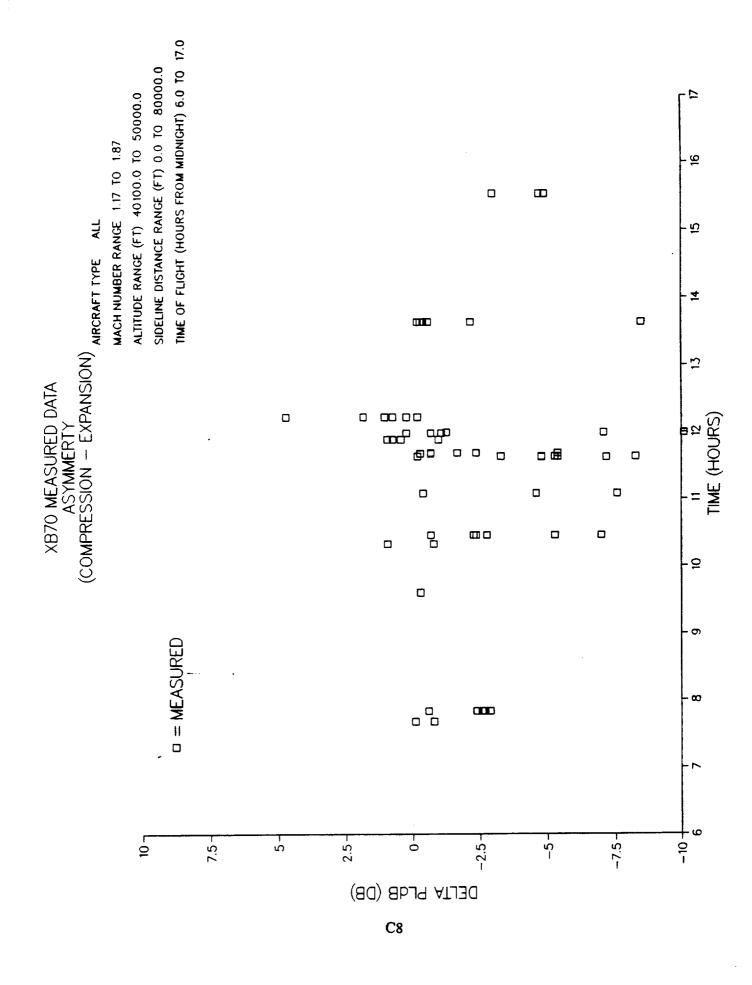


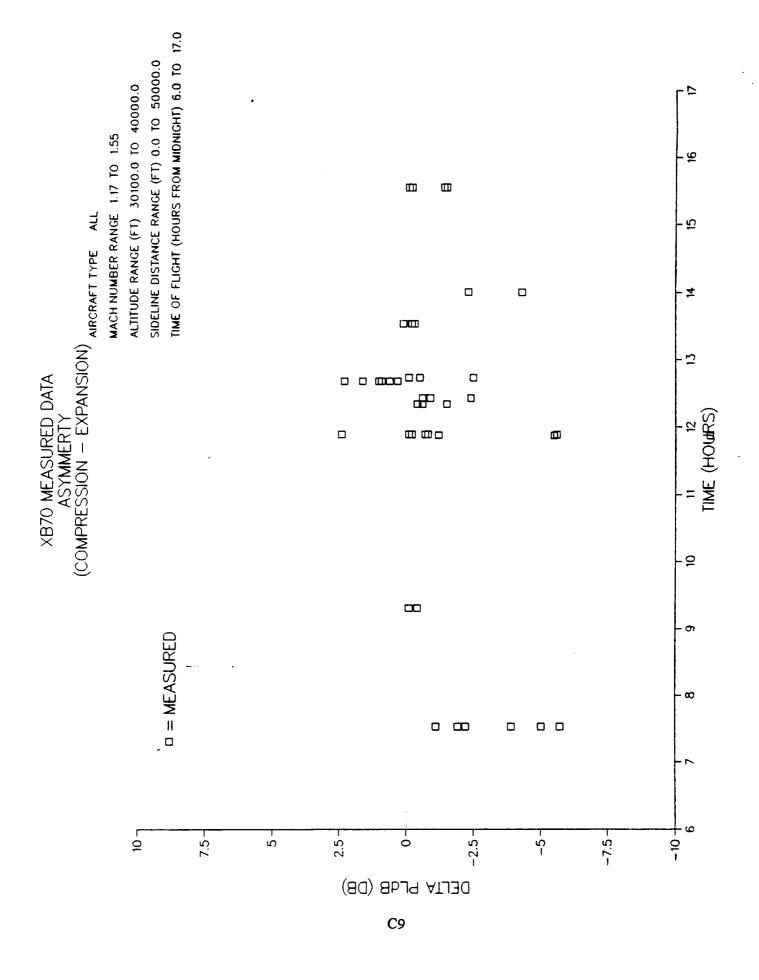


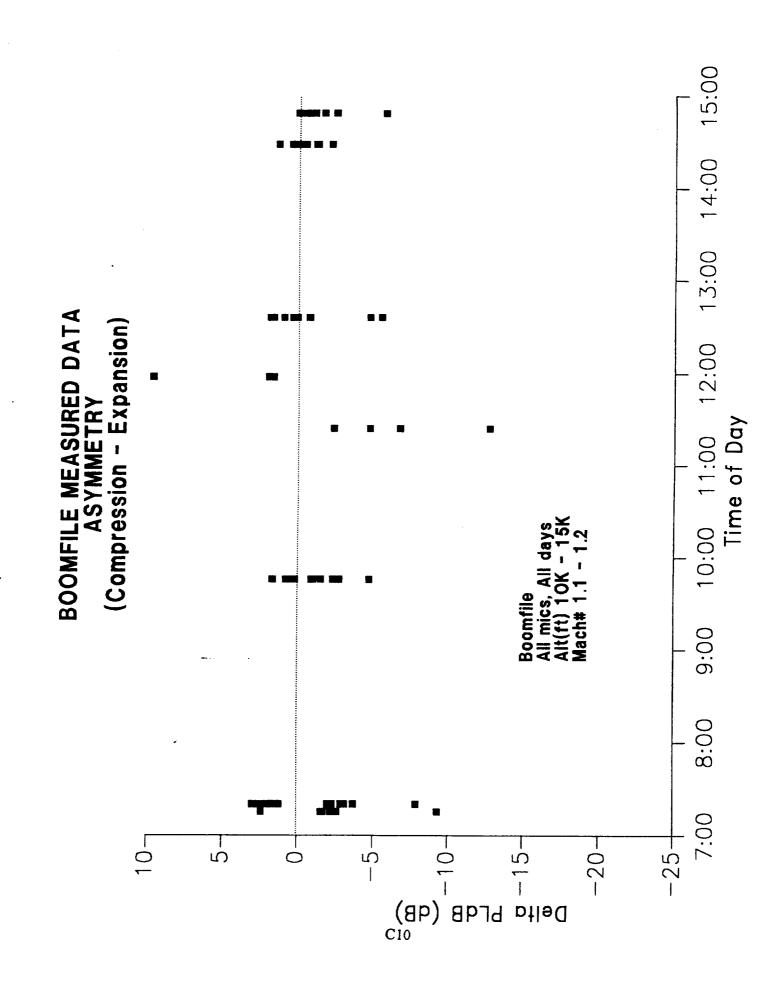


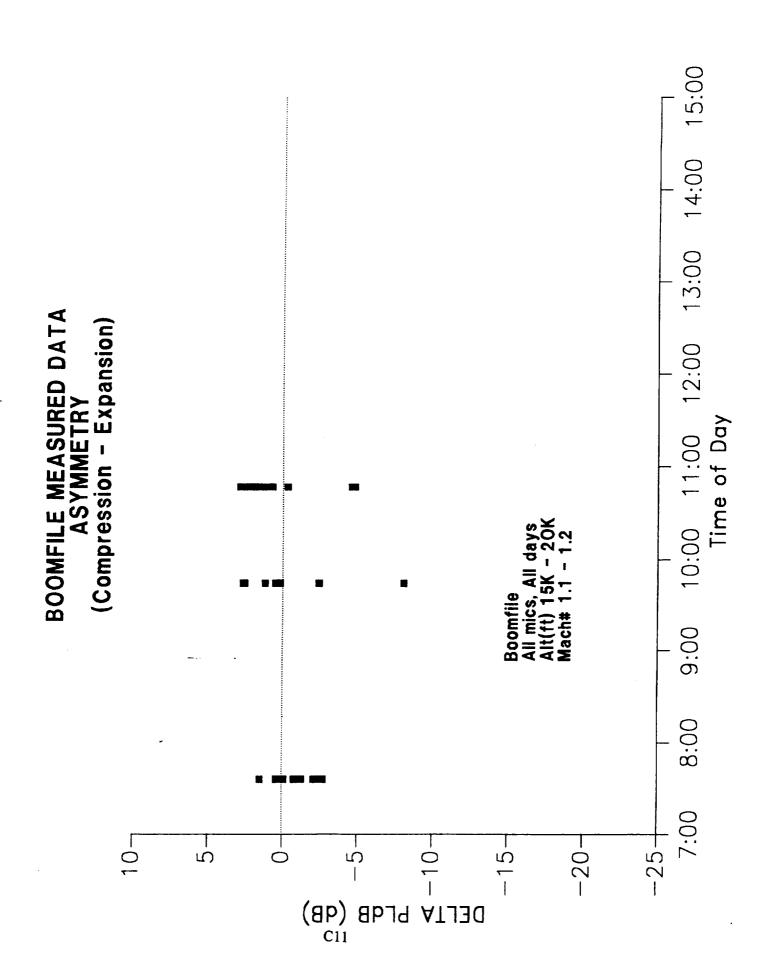


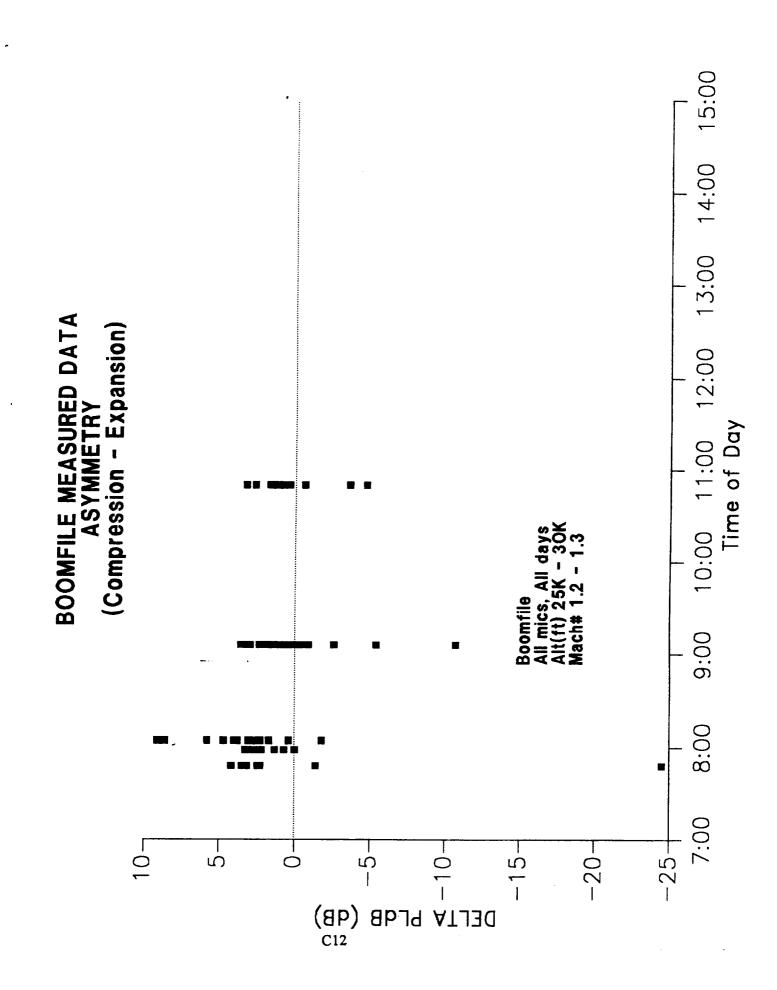


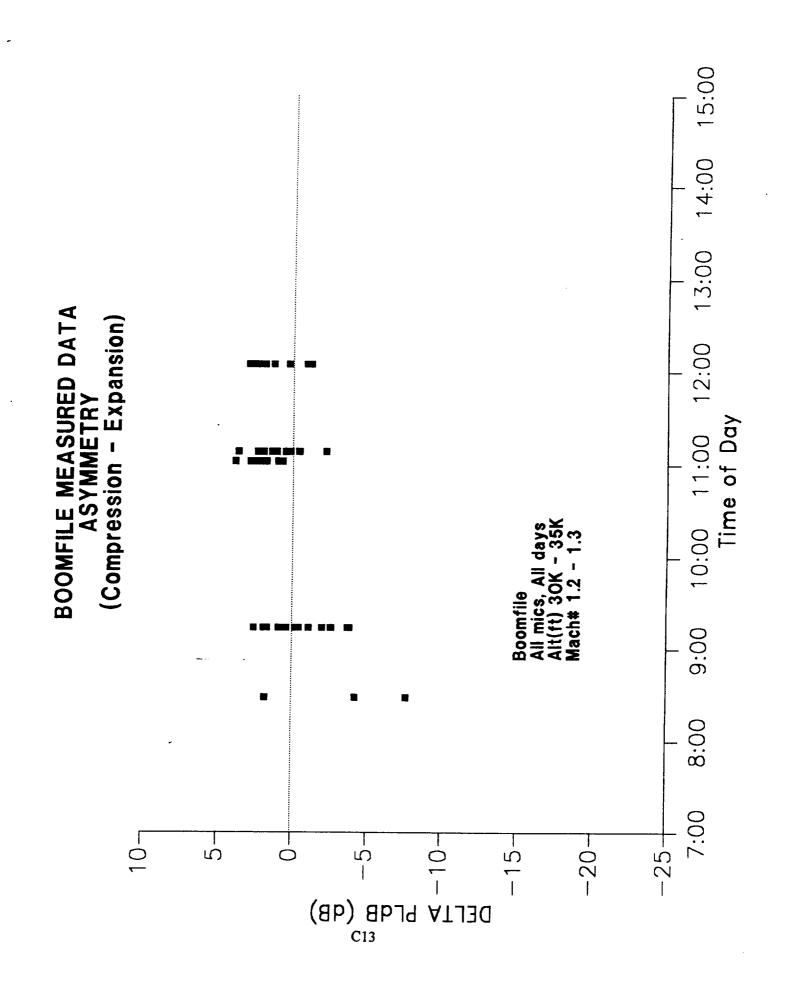


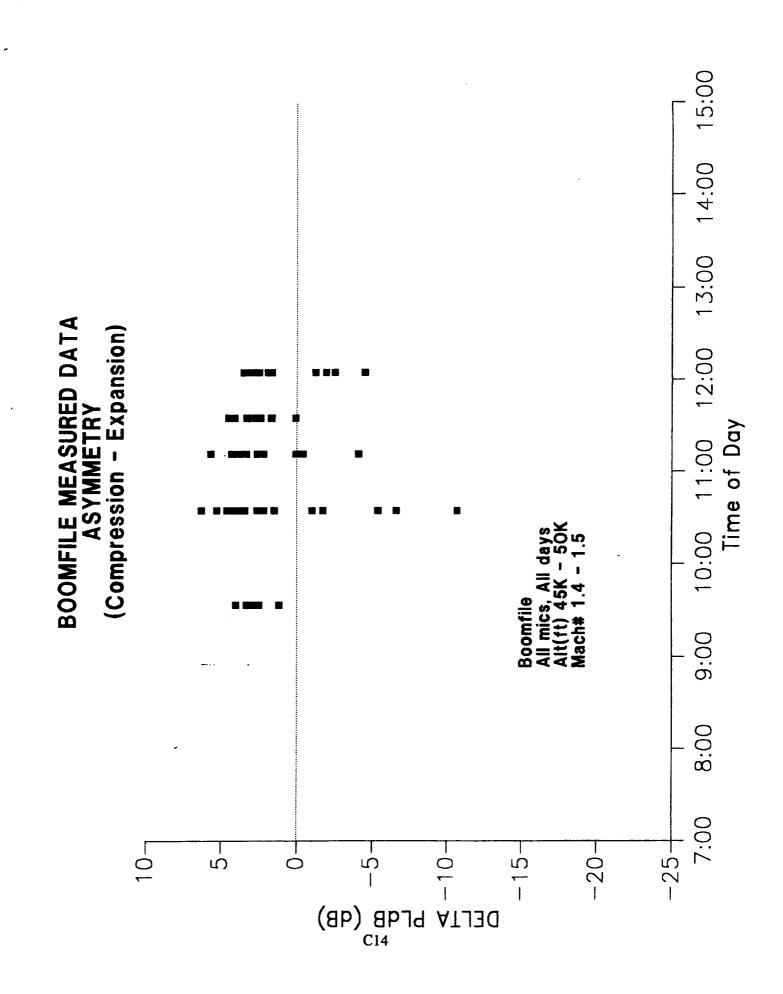












APPENDIX D

XB-70 Equivalent Metrics

XB-70 Database (Noise Metrics) Log Averaged Mean Value Of Each Microphone Cluster For Each Flight

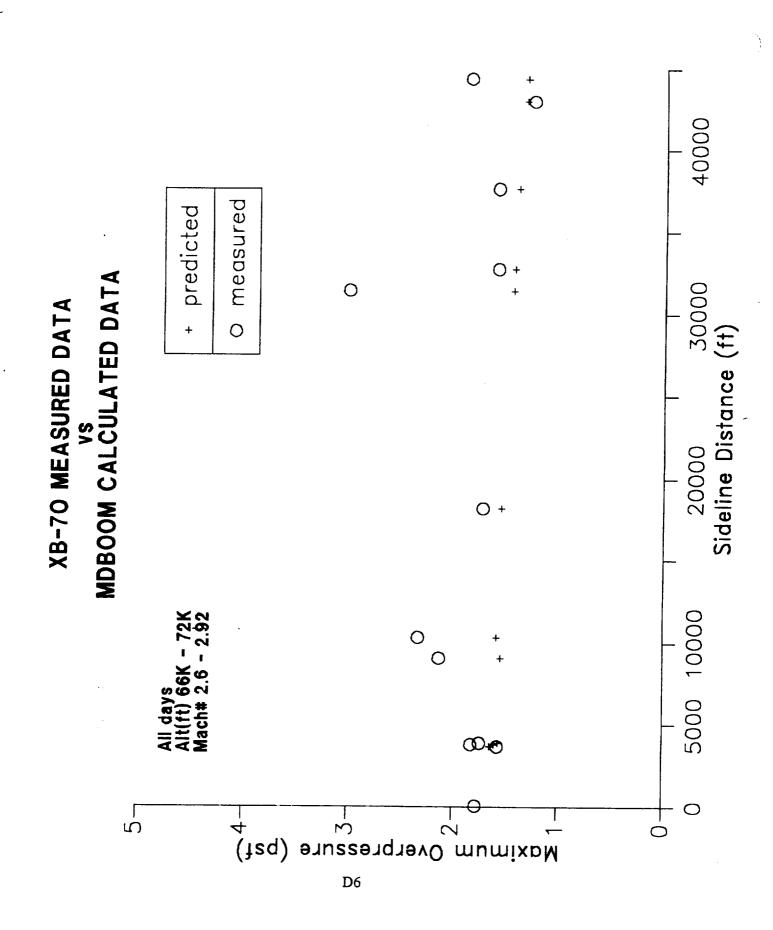
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: | | |
| FILE | TIME | POINTS | PBax
(PSF) | Pain
(PSF) | Lpk
(dB) | (qp) | ASEL
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(dB) | PLDB . | Sideline
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| ٠, | 12 23 | , ve | 3.697 | -2.717 | 139.0 | 126.0 | 0.50 | 113.3 | 110.8 | 3 | 498 | 00 | |
| ım | | . ~ | . 29 | | | | | . " | | 535. | 313. | 6000. | 2.6 |
| · ~ | 0 | m | . 56 | -1.057 | 31 | 120.0 | 85.5 | 104.3 | 0 | • | 8950. | 6000. | |
| 4 | S | 9 | . 57 | -2.234 | δ. | 5. | 94.5 | 110.0 | 9. | 791. | 8107. | 32000.0 | |
| Ś | 9. | • | 11. | -2.021 | 4 | 4. | | 8 | . 90 | 9667. | 346. | 42300.0 | 1.3 |
| 9 | 3.5 | 7 | .31 | 0 | 7 | 108.1 | 71.3 | 84.1 | 82.1 | 248. | 088. | 6000. | 1.4 |
| 7 | 1.9 | 9 | .12 | -1.922 | 134.1 | Э. | 85.4 | 106.3 | 6 | 2784. | 516. | 500. | 1.4 |
| 7 | 6. | æ | .34 | _ | | | | 100.2 | | • | 59. | 500. | 1.4 |
| 80 | 2.4 | æ | .04 | ~ | 7. | 26. | 95.8 | 111.2 | ς. | 761. | .060 | 3800. | 1.5 |
| 6 | 2.3 | m | . 48 | ~ | S | 26. | | 105.5 | m | 129. | 559. | 3 | 1.3 |
| 10 | 2.7 | | .72 | m | 6 | 127.2 | 97.9 | 113.4 | <u>.</u> | 376. | 5616. | ö | 1.4 |
| 11 | 3.5 | m | . 55 | -2.489 | 138.8 | 125.4 | 100.2 | 112.1 | • | 679.7 | 421. | 4000. | 1.5 |
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| 13 | 0.4 | 9 | . 28 | 0 | 9 | 107.2 | | 0 | 10 | 258. | 529 | 000 | 1.4 |
| 14 | 2.9 | 7 | .02 | - | 133.7 | ٠. | Ξ. | 106.5 | - | 4303. | 502. | 500. | 1.8 |
| 15 | 1.0 | ٣ | 8 | 0 | 127.6 | 7. | 0 | 99.5 | - | 2663. | 6965. | 200 | 1.8 |
| 16 | 3.6 | 9 | . 75 | -2.687 | 136.4 | 125.5 | 5. | 110.7 | _ | • | 62 | 1500. | 1.6 |
| 17 | 0.1 | 9 | . 28 | -0.791 | 129.8 | | 2. | 101.6 | _ | 2130. | 816. | 000 | 1.8 |
| 18 | ς. | 9 | .97 | | | 122.2 | | 106.1 | | 7. | 34212.1 | . 000 | 2.3 |
| 19 | 9.0 | 9 | .83 | . 27 | 132.9 | Ξ. | 8 | 105.3 | ۲. | 643 | 650. | 4000. | 1.7 |
| 20 | 0.5 | 9 | .87 | . 74 | ë. | • | 6 | 0 | 103.7 | | | 5500. | 2.4 |
| 21 | 3.2 | æ | .30 | . 62 | Ĩ. | 126.7 | Š. | 110.5 | 0 | 4098. | 1779. | 0200. | 2.5 |
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| 22 | ٣. | m | .71 | 11 | ά. | | 9 | | : | 8382. | 292. | 7000. | |
| 22 | 0.4 | • | 00. | | - | • | δ. | - | 0 | 1396 | | . 0000 | |
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د | 0000 | |
| 24 | 0.3 | | . 26 | .08 | On I | 6 | 4 | 2 | 9.86 | 2966 | ٠ | . 0086 | |
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| 56 | °. | 9 | 66. | . 72 | ë. | 23. | 6 | 9 | | 345 | 9728. | 0009 | 2.0 |
| 27 | ₩. | 9 | . 28 | -1.072 | 3 | 21. | 89.5 | 80 | 0.5 | 43 | 3.78 | 5100. | 1.7 |
| 28 | 1.6 | ~ | . 25 | . 27 | 37. | 76. | 7 | 9 | 03 | 803 | 5615. | 1000 | |
| 28 | 1.6 | 9 | . 29 | . 57 | 38. | 27. | _; | | 107.5 | 617 | 478. | 2000 | 1.8 |
| 53 | 5.5 | æ | .85 | . 24 | 6 | 29. | س | 10. | 08. | 6830 | 588. | . 000 | |
| 29 | 5.5 | 9 | .18 | 2. | 7. | 7. | | - | • | 49 | 56. | 0000 | • |
| 30 | 0.5 | 3 | .82 | 1.50 | ۲, | 22. | 4 | 05. | 00 | 3765 | 191. | 8500. | • |
| 30 | 0.5 | 9 | . 72 | 1.30 | ~ | 21. | 2 | • | ٠ | 8175 | 479. | 9300. | 2.6 |
| 31 | 0.2 | 3 | .86 | 1.29 | 33. | 21. | 7 | S | | 4358 | 2813. | . 0009 | |
| 31 | 0.2 | 4 | . 59 | 1.18 | - | ~ | 84.4 | Α. | ٠ | œ | 0366. | . 000 | 2.7 |
| 32 | 2.1 | 3 | Ξ. | . 57 | ~ | 22. | | 9 | | 039 | 7905 | | • |
| 32 | 2.1 | 9 | . 73 | -1.486 | 132.4 | | 84.3 | | 99.5 | S | 7 | 30 | 2.8 |
| 33 | 8.0 | 3 | 96. | 2.52 | | 25 | • | 110.6 | 106.7 | 342 | 43183.1 | 51000.0 |
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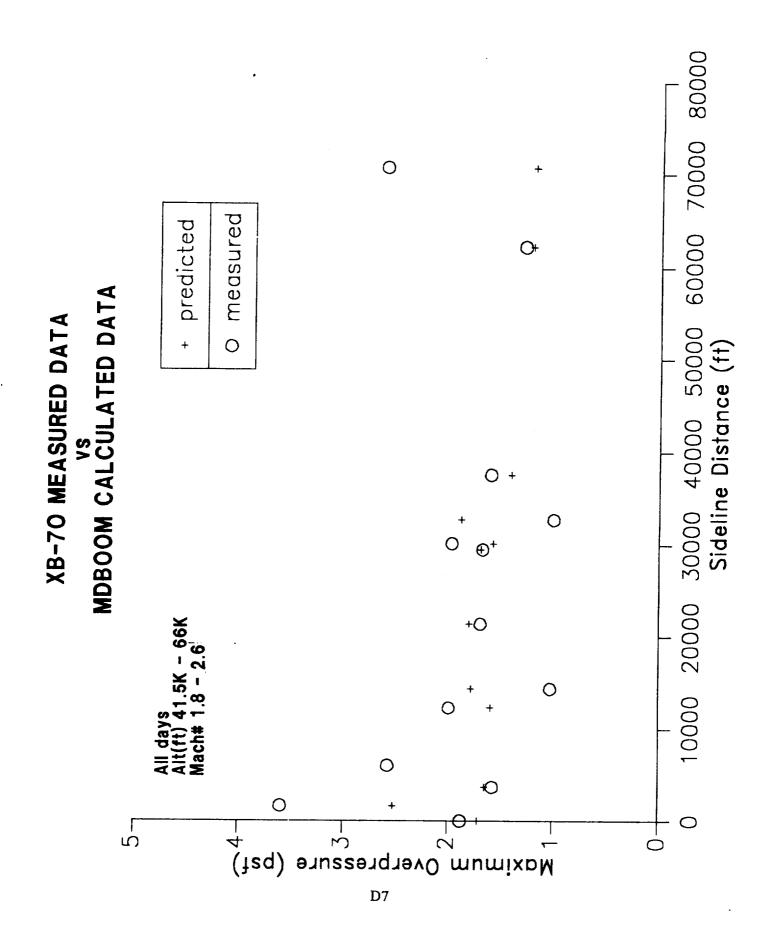
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|---------|---------|---------|---------|---------|------------|---------|---------|----------------------|---------|---------|---------|---------|---------|
| | | | | | | | | 14429.3 | | | | | |
| 102.7 | 104.0 | 95.8 | 99.2 | 91.3 | 9.66 | 98.0 | 100.9 | 92.3 | 108.6 | 110.2 | 105.2 | 103.1 | 112.9 |
| 106.3 | 108.4 | 102.1 | 6.86 | 9.86 | 106.4 | 102.7 | 106.0 | 98.2 | 108.4 | 109.8 | 108.3 | 105.6 | 114.2 |
| 88.7 | 88.2 | 81.0 | 0.68 | 17.6 | 83.4 | 83.1 | 85.5 | 77.0 | 94.3 | 95.5 | 90.1 | 88.7 | 97.3 |
| 121.8 | 126.3 | 120.0 | 121.0 | 118.2 | 126.3 | 122.2 | 124.8 | 116.2 | 124.7 | 122.1 | 124.7 | 122.4 | 127.4 |
| 134.0 | 137.2 | 133.3 | 131.7 | 130.0 | 136.7 | 132.2 | 136.0 | 127.8 | 134.5 | 134.7 | 135.9 | 132.6 | 138.9 |
| -1.411 | -2.753 | -1.100 | -1.138 | -0.867 | -2.366 | -1.488 | -2.035 | -0.642 | -2.286 | 1-1.768 | -2.021 | -1.525 | -3.476 |
| 2.087 | 3.000 | 1.928 | 1.600 | 1.308 | 2.840 | 1.675 | 2.617 | 1.024 | 2.227 | 2.211 | 2.573 | 1.773 | 3.642 |
| 9 | m | 9 | m | 9 | 6 0 | 9 | e | - w | m | 7 | 15 | 16 | 16 |
| 10.88 | 11.62 | 11.62 | 11.87 | 11.87 | 11.63 | 16.77 | 12.92 | 12.92 | 10.32 | 12.67 | 00.0 | 00.0 | 0.00 |
| 33 | 34 | 34 | 34 | 34 | 35 | 36 | 37 | 3.7 | 38 | 39 | 40 | 41 | 4.2 |

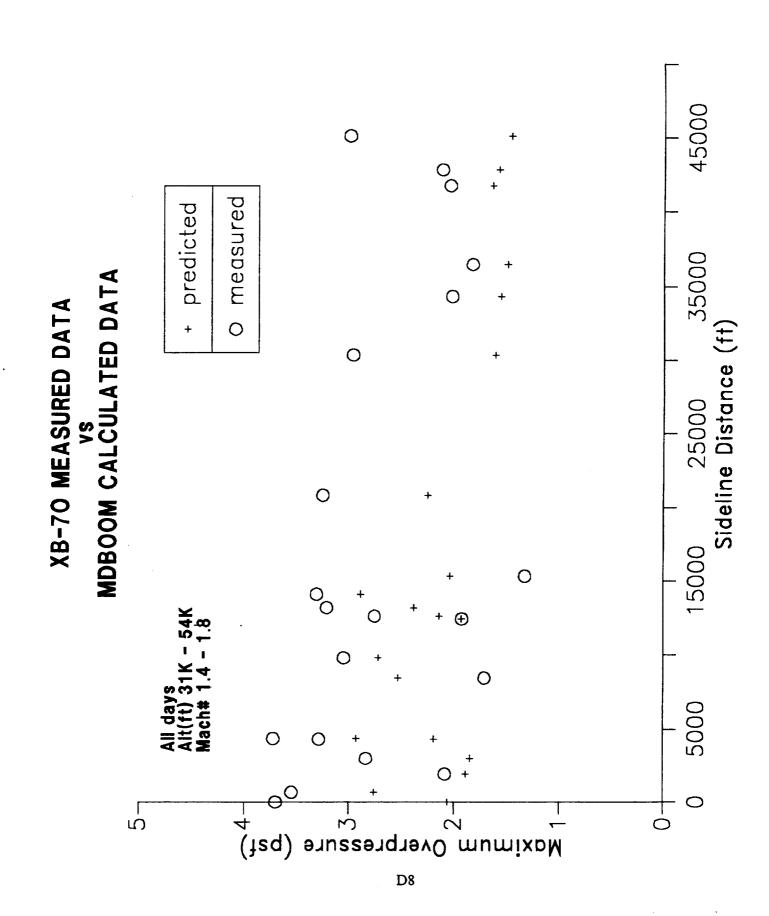
XB-70 Database (Noise Metrics) Standard Deviation Of Each Microphone Cluster For Each Flight

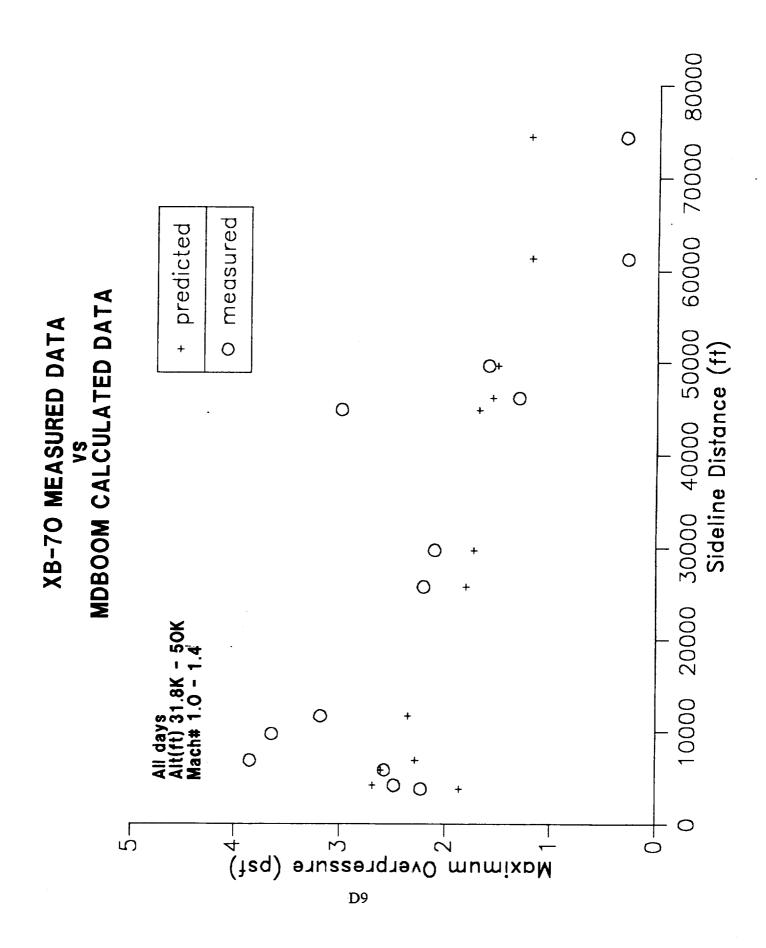
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|------|-------------|------------|---------------|---------------|-------------|--------------|--------------|----------|--------------|---|---------|----------|-------|
| | | | STDV | STDV | STDV | STDV | STDV | STDV | STDV | 1 | 9 | Altituda | 40.4 |
| FILE | TIME | POINTS | PBBX
(PSF) | Pain
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| | 1 | | 1 : | ! ' | ! ' | | 1 . | 954 | | 71349 6 | 38871.3 | 50500.0 | - |
| - | 7 | • | 29 | 0.5 | ŭ. | 7 | 1.000 | - | 9 6 | · | 880 | 000 | |
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| ٦ - | | , ~ | 6 | 0.7 | 4 | 11 | • | .47 | 1.868 | .: | 1959 | 2500. | 1.4 |
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| 10 | 2.7 | 7 (| | ì | | | | | | 79 | 4421 | 000 | 1.5 |
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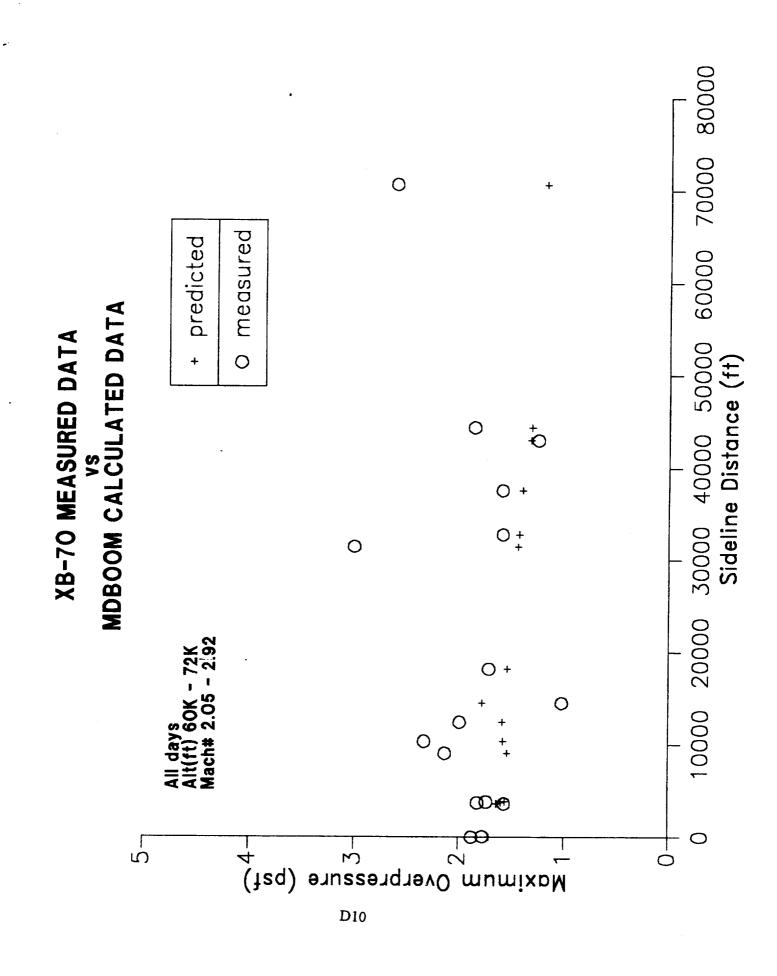
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|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|------------|---------|
| 51000.0 | 44000.0 | 44000.0 | 36400.0 | 36400.0 | 52000.0 | 53000.0 | 64000.0 | 64000.0 | 44300.0 | 39800.0 | 39800.0 | 52900.0 | 72000.0 |
| 37020.1 | 59818.1 | 42893.0 | 83739.4 | 79606.8 | 48586.6 | 32027.1 | 51856.5 | 35416.2 | 64628.0 | 86275.2 | 86275.2 | 0.0 | 0.0 |
| 1933.7 | 45073.2 | 12424.4 | 49614.0 | 46177.4 | 3011.4 | 29468.5 | 70589.5 | 14429.3 | 3744.8 | 25729.4 | 25729.4 | 0.0009 | 70.0 |
| 0.805 | 3.436 | 0.935 | 5.755 | 2.097 | 1.775 | 2.294 | 2.285 | 1.779 | 3.656 | 4.760 | 2.534 | 2.532 | 4.003 |
| 1.125 | 2.055 | 0.562 | 0.402 | 1.147 | 1.566 | 1.915 | 2.023 | 1.886 | 0.458 | 2.581 | 1.684 | 1.245 | 2.186 |
| 2.089 | 3.002 | 1.372 | 9.307 | 1.842 | 1.385 | 2.059 | 1.305 | 1.159 | 4.779 | 4.854 | 2.616 | 2.785 | 4.227 |
| 1.056 | 0.633 | 0.472 | 0.702 | 0.525 | 0.714 | 1.592 | 0.402 | 0.420 | 0.270 | 0.785 | 0.883 | 0.375 | 0.375 |
| 0.158 | 0.888 | 0.928 | 0.250 | 0.771 | 0.496 | 1.647 | 0.677 | 1.074 | 0.405 | 1.973 | 1.225 | 0.700 | 1.121 |
| 0.154 | 0.150 | 0.097 | 0.085 | 0.070 | 0.198 | 0.250 | 0.124 | 0.029 | 0.038 | 0.209 | 0.252 | 0.073 | 0.162 |
| 0.038 | 0.312 | 0.192 | 0.050 | 0.116 | 0.171 | 0.296 | 0.208 | 0 127 | 0.097 | 0.520 | 3.50 | 0 1 4 9 | 0.468 |
| 9 | m | 9 | 3 | 9 | 8 | • | m | v | ۰ ۳ | , . | | 91 | 16 |
| 10.88 | 11.62 | 11.62 | 11.87 | 11.87 | 11.63 | 16.77 | 12.92 | 13 93 | 10.32 | 13.52 | 0.0 | | 0.0 |
| 33 | 3.4 | -34 | 34 | 34 | 3.5 | 36 | 37 | , | ` ° | 0 0 | n < |) <i>-</i> | 42 |

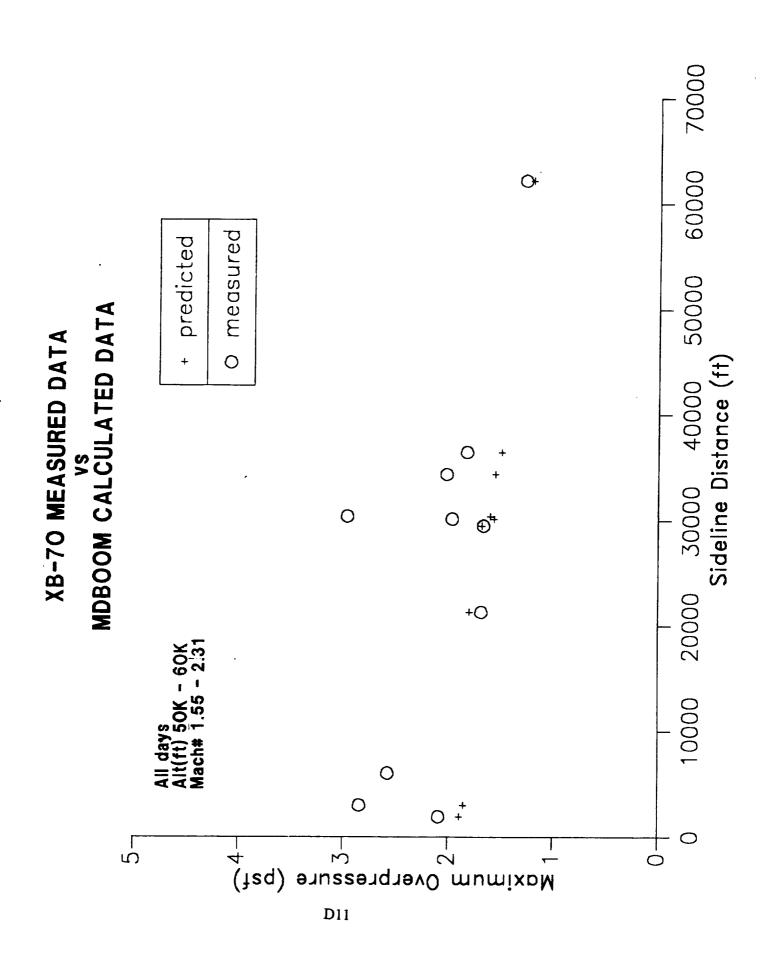


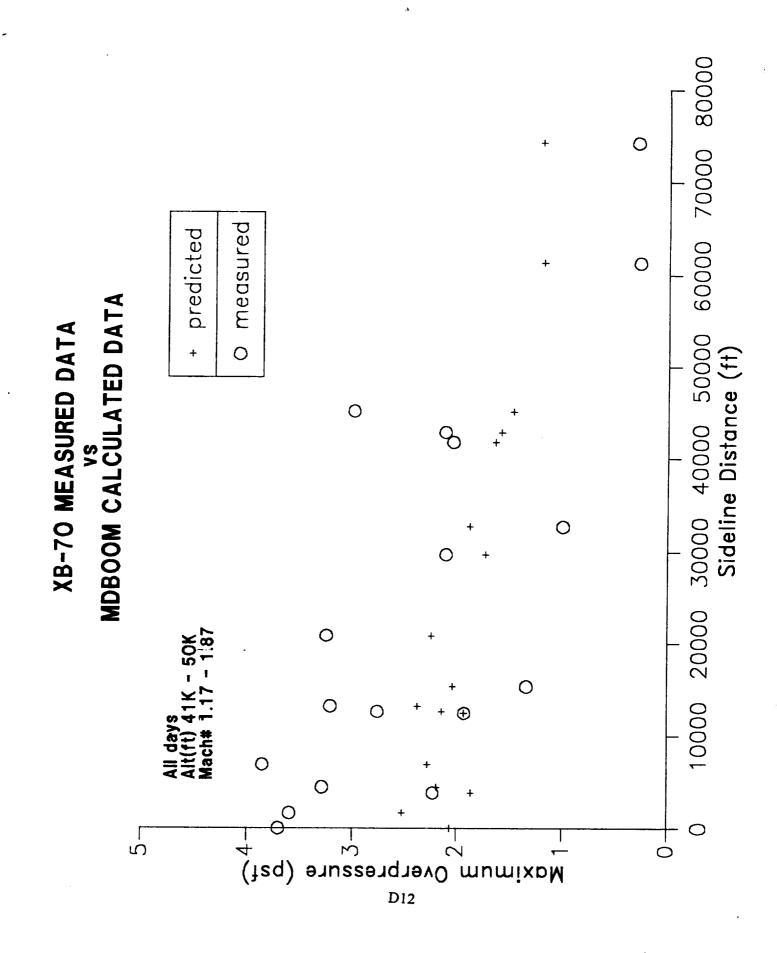


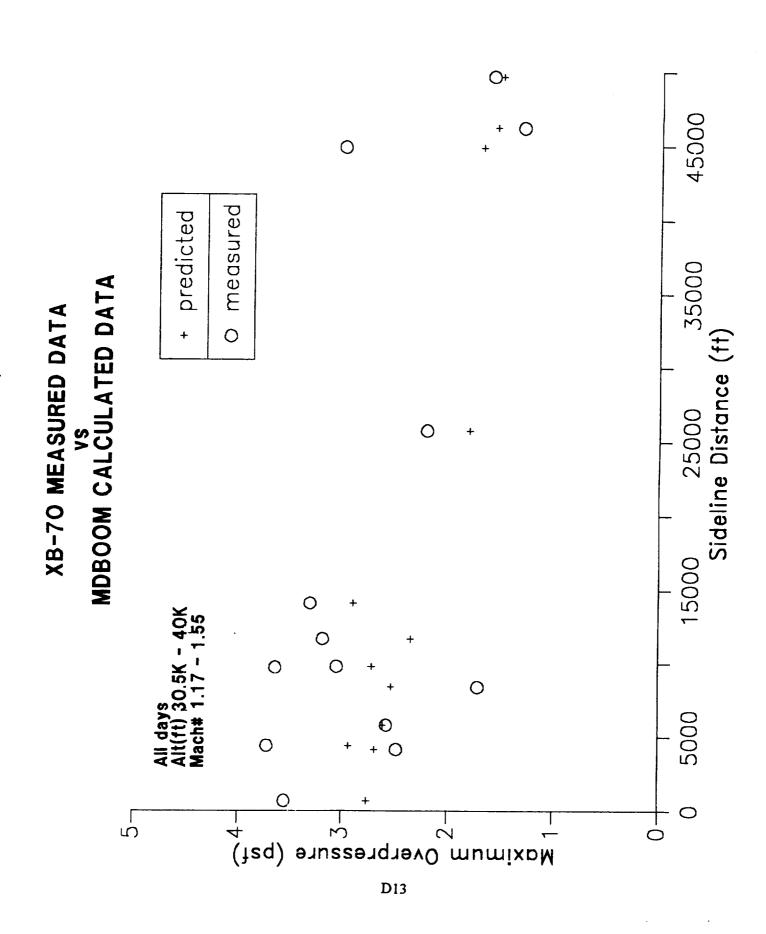


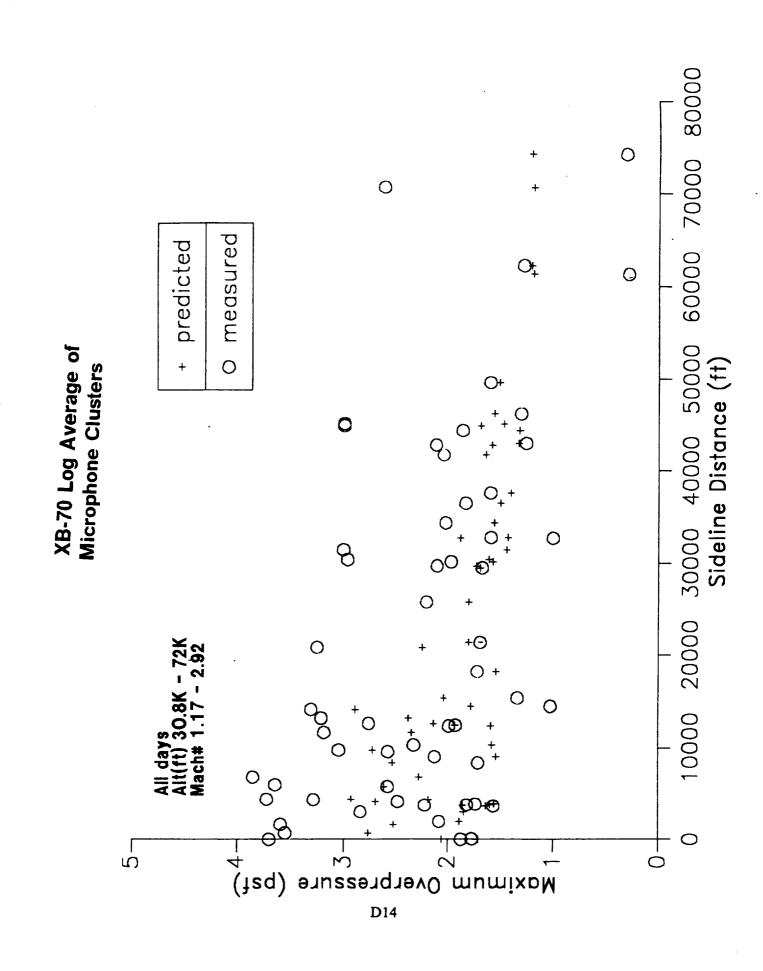












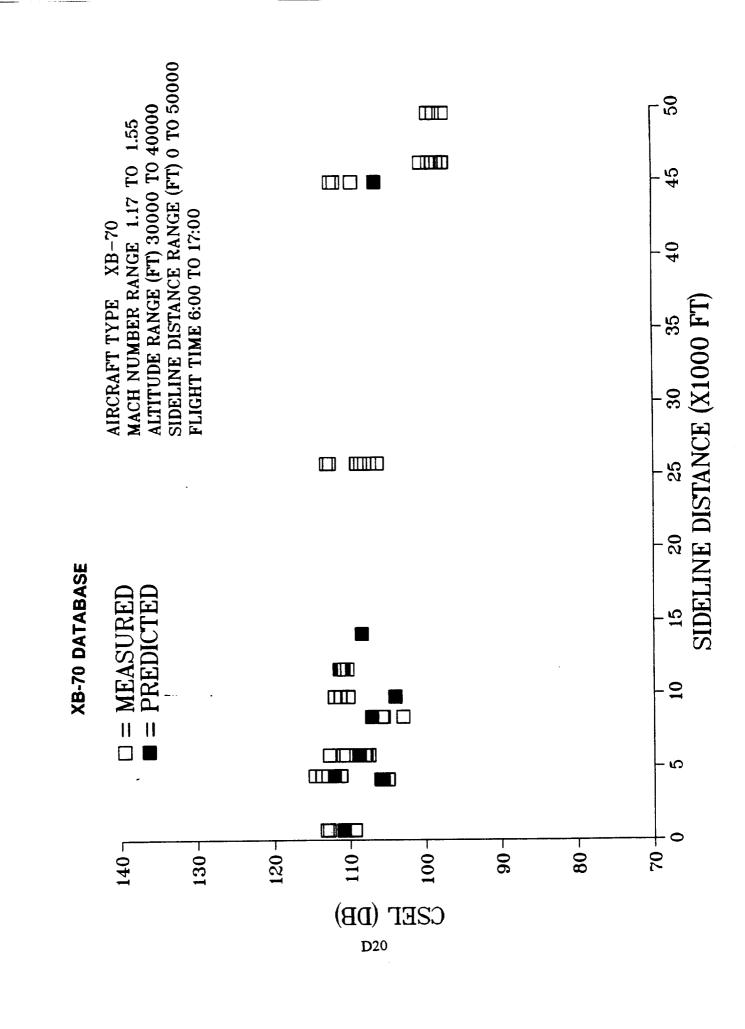
0 о+ O measured predicted XB-70 Log Average of Microphone Clusters 20000 30000 Sideline Distance (ft) 0 0 + All days Alt(ft) 66.0K - 70.3K Mach# 2.60 - 2.92 5000 10000 0 **₩** 0 120-1 110-PLdB (dB) -06 115-105-85-80-95-

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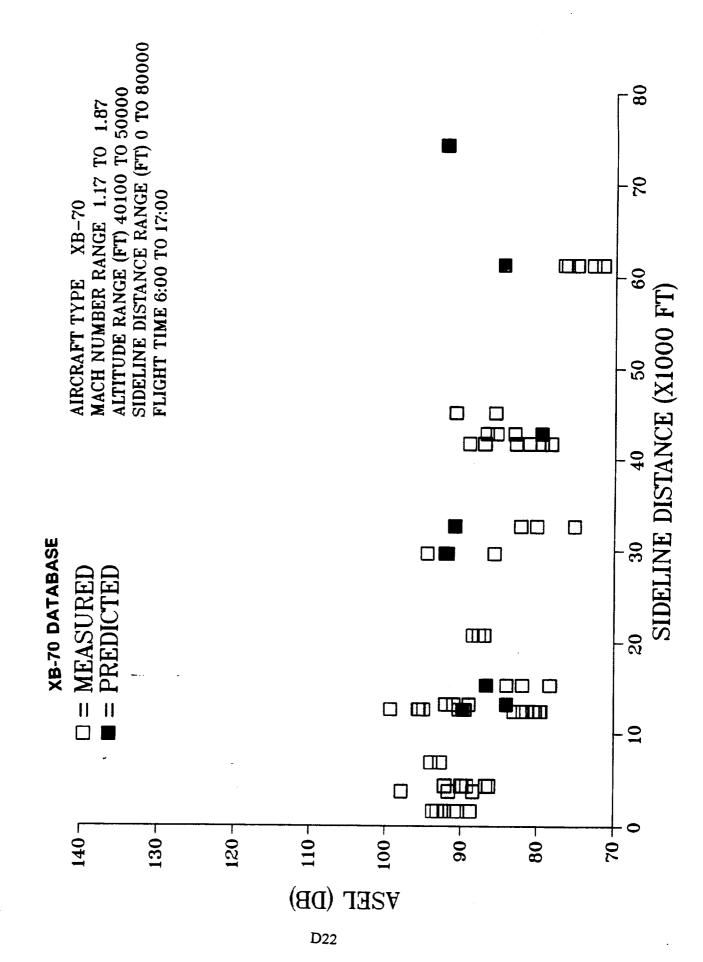
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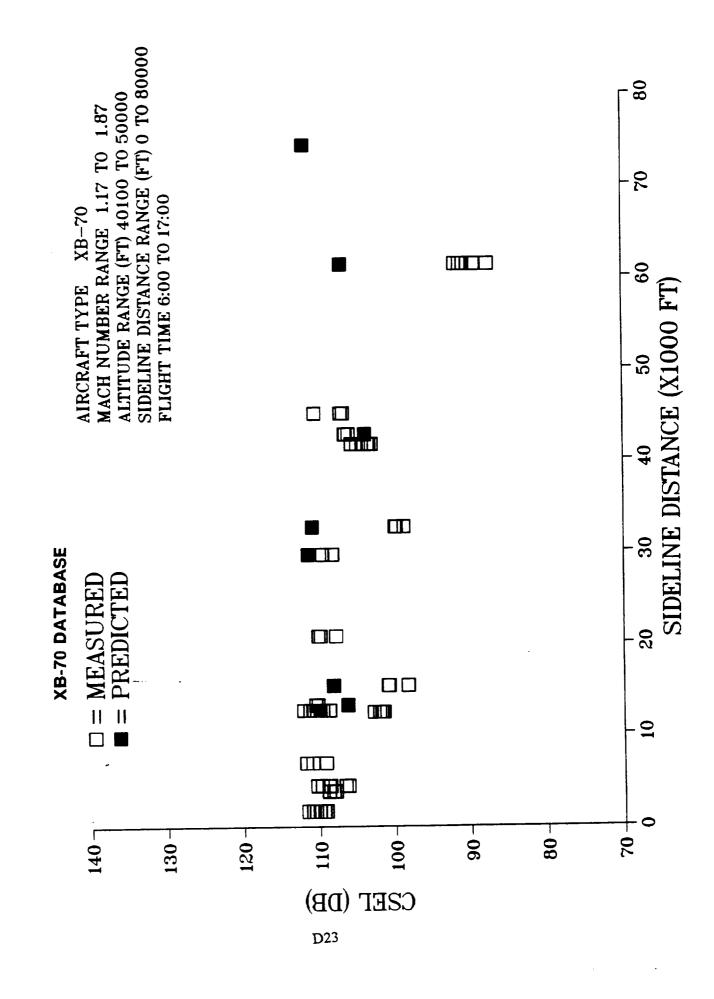
45000 0 0 measured predicted 35000 XB-70 Log Average of 0 Microphone Clusters 0 25000 Sideline Distance (ft) 0 0 15000 0 O+ O All days Alt(ft) ´31.0K - 54.0K Mach# 1.40 - 1.80 0 0 + 0 5000 0 Э 0 ÷ • PL4B (4B) 0 110-1207 115-105-85-106 80-95-

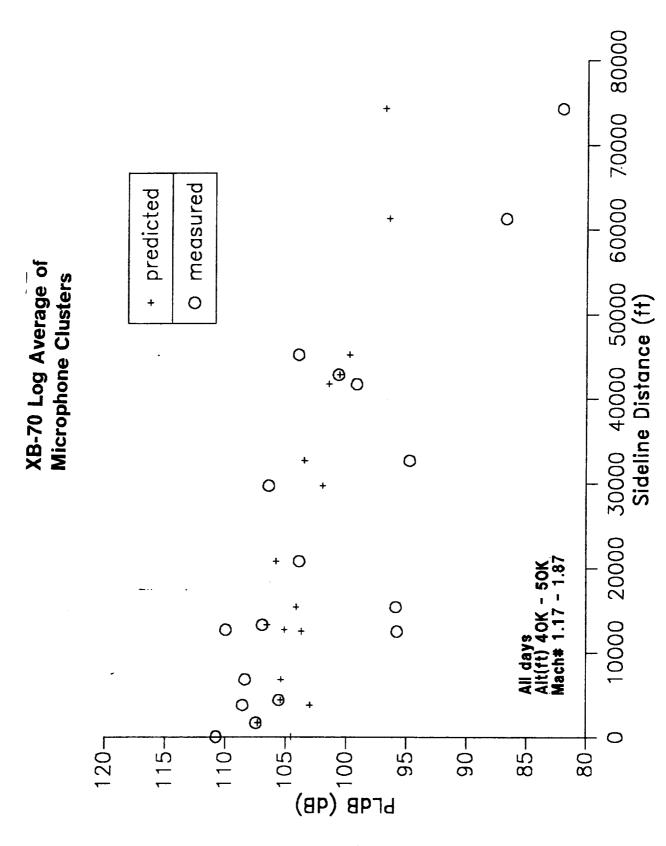
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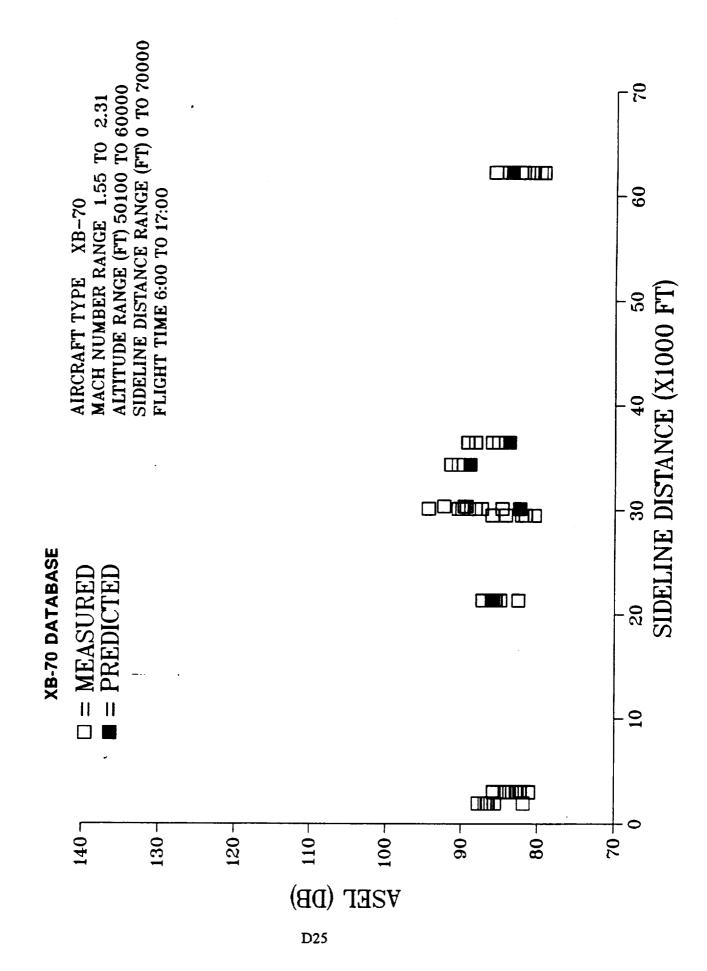


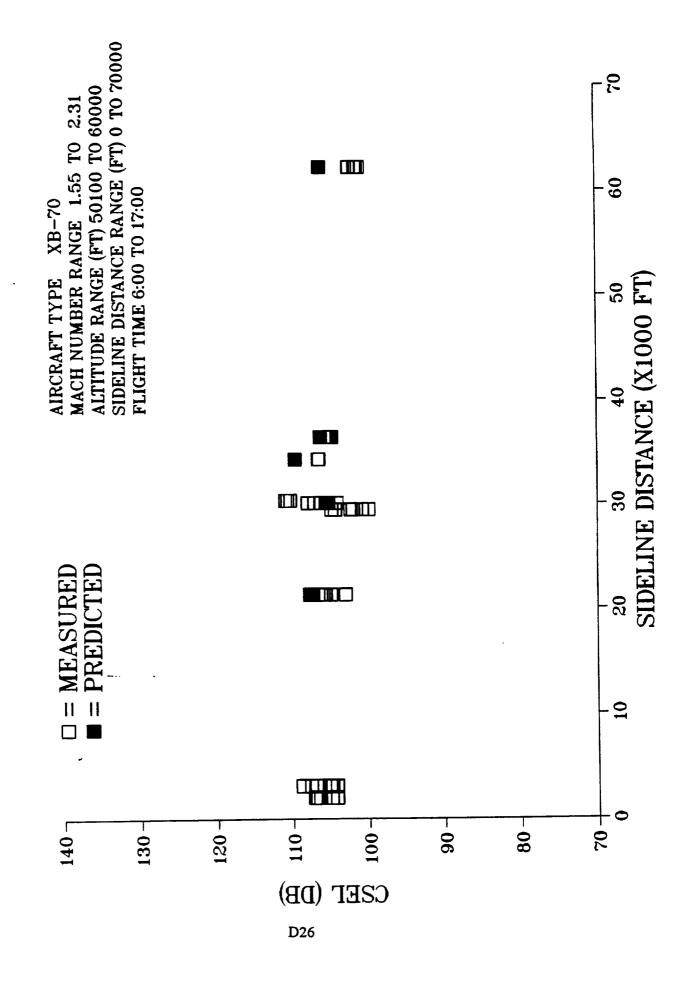
0 0 measured predicted 35000 XB-70 Log Average of Microphone Clusters 0 Sideline Distance (ft) 0 O+ 0+ 0 0 5000 0 0 115-10 0 85-1207 110-105-PL4B (4B) 80 90-95-D21





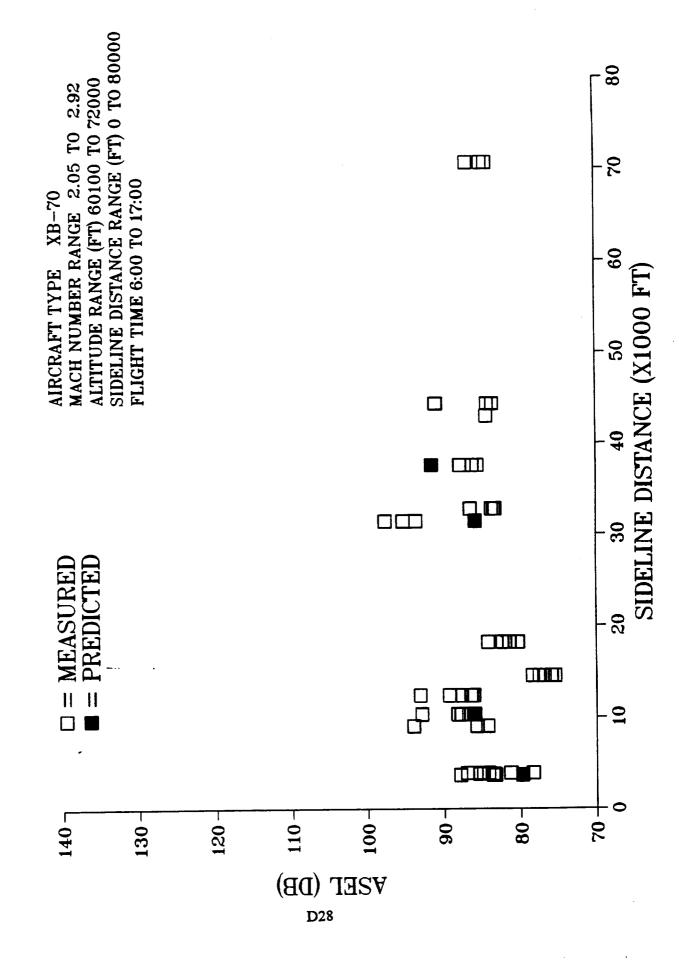






10000 20000 30000 40000 50000 60000 70000 **Sideline Distance (ft)** 0 measured predicted Microphone Clusters 0 0 0 + 0 0 85-PL**dB (dB)** 1207 110-115-105-80-95--06 D27

XB-70 Log Average of



10000 20000 30000 40000 50000 60000 70000 80000 **Sideline Distance (ft)** 0 measured predicted XB-70 Log Average of Microphone Clusters 0 0 **O** 0 0 0 8° 0 85-105--06 80-1207 115-110-PLAB (AB) 95-D29

REPORT DOCUMENTATION PAGE

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| K. R. Elmer and M. | C. Joshi | | | | | | |
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| 3855 Lakewood Blvd. | | | | | | | |
| Long Beach, CA 90846 | | | | | | | |
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| 13. ABSTRACT (Maximum 200 words) | | | | | | | |
| Sonic boom signatures from two | databases - the BOOMFILE a | nd the XB-70 were a | nalyzed in terms of C-weighted sound | | | | |

Sonic boom signatures from two databases - the BOOMFILE and the XB-70 were analyzed in terms of C-weighted sound exposure level (CSEL), A-weighted sound exposure level (ASEL), and Stevens Mark VII perceived level (PLdB), as well as the more traditional peak positive overpressure and rise time. The variability of these parameters due to propagation through atmosphere was analyzed for different aircraft Mach number and altitude groups.

The low Mach number / low altitude group had significantly greater variation in rise time, overpressure, and loudness level than the high Mach number / high altitude group. The loudness of measured booms were found to have a variation of up to 25 dB relative to the loudness of boom predicted for a non-turbulent atmosphere. This is due primarily to the steeper ray paths of the high Mach number / high altitude group and the corresponding shorter distances traveled by these rays through the lower atmosphere resulting in reduced refraction effects. The general trend of decreased overpressure and loudness level with increasing lateral distance was also seen. Sonic boom signatures from early morning flights had less variation in rise time and overpressure than afternoon flights because of reduced turbulence. Measures of asymmetry (difference between compression and expansion portion of the signature) showed that the variability in Δ loudness level was greater than the variability in Δ overpressure due to the large influence of turbulence on rise time. Lastly, analysis of data within 50% of lateral cutoff showed that the mean value for overpressure and loudness level was independent of time of day but that the frequency with which it occurred was greater in the morning. This is a clear indicator of increased turbulence in the afternoon.

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